

CATALOG

Compact Product Suite

Product Catalog



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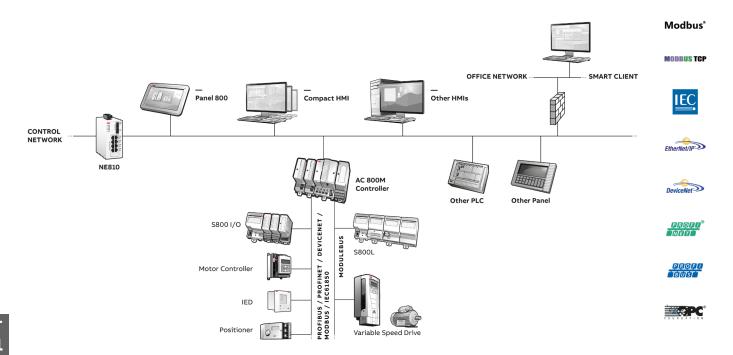
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Compact Product Suite



The Compact Product Suite is a comprehensive family of process automation and control products for your system integration and OEM business. It is the keystone to any automation task in the process industry where engineering efficiency matters.

These products can be combined as a tailored solution or, as standalones to complement an existing solution. However you use them, they will ensure high availability and enable increased productivity.

The Compact Product Suite is a set of automation building blocks that help you achieve the quality and productivity your production site deserves. It helps you focus on the missing block/component to add value to the production facility.

Whether it's process controllers, field interfaces or HMIs, our comprehensive suite of products enables automation with seamless perfection. When it comes to finding the best solution for your process, ABB's Compact Product Suite is your answer.

Every product in the Compact Product Suite portfolio provides the highest level of performance, security, connectivity and reliability in its class. This is the result of ABB's 50 plus years of proven expertise in automation control and technologies in the process Industry. From the process field, to panels, to your central operator room, Compact Product Suite will fullfill all your automation needs.

Compact HMI 800 6.0.3.2

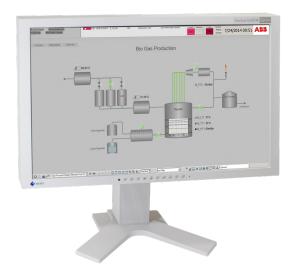
Compact HMI is an easy-to-use and fully equipped PC-based SCADA system for real-time operation of your plant. It offers the latest ergonomic design based on high performance graphics to take afull control of your process and data.

Based on the premium technology of ABB's System 800xA DCS with its leading object oriented engineering platform, it can be used in a variety of diverse industries, ranging from a single operator workstation, with 50 signals and scale up to applications with several thousand signals and multiple workplaces.

Designed with Microsoft Windows® standard of interaction, Compact HMI supports Windows 8.1, Windows 10 2016 LTSB, Windows Server 2012 R2 and Windows Server 2016. This provides exceptional ease of use, unmatched performance and cost savings.

Another feature is the high performance pre-fabricated, re-usable graphics library that is based on the industry best-practice principles to help quick creation and utilization of graphic displays.

Not only can Compact HMI directly interface to a large number of OPC-compliant controllers but also it comes with built in drivers to connect to major PLCs.



Control System Lifecycle Management Program

Control System Lifecycle Management Program



Automation Sentinel is the ABB control system lifecycle management program for the Extended Automation, Freelance, Compact Product Suite, Symphony Plus and OCS product lines. ABB recommends its customers to use Automation Sentinel for all its installed control systems. With this program, customers can keep control software up-to-date and maintain a flexible path forward to new system software technology. It provides services to maintain and continually advance and enhance your ABB control system installation. You may choose the level of maintenance and upgrade support that works best for your immediate needs and long-term production targets.

Read more about our Automation Sentinel Program and its many valuable services here: http://new.abb.com/control-systems/service/offerings/service-agreements

Please contact your local sales representative for detailed information on the program and on how to order Automation Sentinel subscriptions.

Compact HMI Base System

Compact HMI Base System		Article no.
	Compact HMI 800 6.0.3 Media (USB) Compact HMI 6.0.3.2 installation media on a write protected USB drive. Manuals as PDFs. Media can also be downloaded from ABB Library or MyABB/My Control System. *NO LICENSE INCLUDED*	3BSE091823R1
	Compact HMI 800 6.0.3 Base License Base License for one combined HMI Operator and Engineering Workplace Server Plant Explorer, Aspect Server and Softpoint Server, Scheduler, Primary History Logs, PLC Connect, PLC Connect Dial-Up, Compact HMI Alarm Operations, SMS & Email Messaging, Audit trail, Advanced Access Control, Digital Signature, Graphics Builder and Symbol factory. *NO MEDIA INCLUDED*	3BSE091827R1

Compact HMI Base System

Signal Additions

Signal Additions		Article no.	
	Compact HMI 6.0.3 Base System signals.		
	50 Signals	3BSE091828R1	
	500 Signals	3BSE091829R1	
	2500 Signals	3BSE091830R1	

Compact HMI Base System

Snapshot Reports

Compact HMI 6.0.3 Snapshot Reports	Article no.
Makes it possible to create aspects that auto executes a query and produces a report cons properties of objects in the system.	3

Compact HMI Base System

HMI Clients

HMI Operator Workplace Clients		Article no.
	Additional clients to a Compact HMI base system need to have an equal number of signals as the base system use.	
	Operator Workplace Client – 200 Signals One additional Compact HMI 6.0.3 Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE091833R1
	Operator Workplace Client – 500 Signals One additional Compact HMI 6.0.3 Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE091834R1
	Operator Workplace Client – 1000 Signals One additional Compact HMI 6.0.3 Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE091835R1
	Operator Workplace Client – 2000 Signals One additional Compact HMI 6.0.3 Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE091836R1
	Operator Workplace Client – 5000 Signals One additional Compact HMI 6.0.3 Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE091837R1
	Operator Workplace Client – 10000 Signals One additional Compact HMI 6.0.3 Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE091838R1

Compact HMI Base System

Office Workplaces

Office Workplaces		Article no.	
	C HMI Smart Client Workplace Includes access to system information from the office network.	3BSE091839R1	
	Possibility to View Process Graphics 2 displays, Trend displays, Build/view business graphics, historic data.		

Compact HMI Base System

Dongles

Dongles	Article no.	
License dongle for USB Port		
For use in 800xA or Compact HMI systems.	3BSE064644R1	

Compact HMI 800 6.0.3 Expansion

Compact HMI Base System

Signal Additions

Signal Additions		Article no.
	Signals additions for Compact HMI 6.0.3 Base System.	
	50 Signals	3BSE091828R1
	500 Signals	3BSE091829R1
	2500 Signals	3BSE091830R1

Compact HMI Base System

Snapshot Reports and Symbol Factory for PG2

Snapshot Reports and Symbol Factory for PG2		Article no.	
	Compact HMI 6.0.3 Snapshot Reports Makes it possible to create aspects that automatically executes a query and produces a report consisting of properties of objects in the system.	3BSE091831R1	
	Compact HMI 6.0.3 Symbol Factory for PG2 Support for Symbol Factory process graphics 2 items in graphics displays.	3BSE091832R1	
	Symbol factory is included in new Compact HMI 6.0.3 base systems. This is only available for systems which has been upgraded to Compact HMI 6.0.3 and does not have a license for Symbol Factory.		

Compact HMI Base System

HMI Clients

HMI Operator Workplace Clients		Article no.
	Additional clients to a Compact HMI base system need to have an equal number of signals as the base system use.	
	Operator Workplace Client – 200 Signals One additional Compact HMI 6.0.3 Operator Workplace Client. Process Graphics, Alarm & events, Trends, Reports.	3BSE091833R1
	Operator Workplace Client – 500 Signals One additional Compact HMI 6.0.3 Operator Workplace Client. Process Graphics, Alarm & events, Trends, Reports.	3BSE091834R1
	Operator Workplace Client – 1000 Signals One additional Compact HMI 6.0.3 Operator Workplace Client. Process Graphics, Alarm & events, Trends, Reports.	3BSE091835R1
	Operator Workplace Client – 2000 Signals One additional Compact HMI 6.0.3 Operator Workplace Client. Process Graphics, Alarm & events, Trends, Reports.	3BSE091836R1

Compact HMI Base System

HMI Clients

HMI Operator Workplace Clients		Article no.	
	Operator Workplace Client – 5000 Signals One additional Compact HMI 6.0.3 Operator Workplace Client. Process Graphics, Alarm & events, Trends, Reports.	3BSE091837R1	
	Operator Workplace Client – 10000 Signals One additional Compact HMI 6.0.3 Operator Workplace Client. Process Graphics, Alarm & events, Trends, Reports.	3BSE091838R1	

Compact HMI Base System

Office Workplaces

C HMI Smart Client Workplace	Article no.	
Compact HMI 6.0.3 Smart Client Workplace.	3BSE091839R1	
Includes access to system information from the office		
network. Possibility to view Process Graphics 2 displays,		
trend displays, build/view business graphics, historic data.		

Compact HMI Base System

Client Signal Expansions

Client Signal Expansions		Article no.	
	Compact HMI 6.0.3. Operator Workplace Cliant		
	Signal Expansions from 200 to 10 000 signals.		
	Client Signal Expansion 200 to 500 signals	3BSE091840R1	
	Client Signal Expansion 500 to 1000 signals	3BSE091841R1	
	Client Signal Expansion 1000 to 2000 signals	3BSE091842R1	
	Client Signal Expansion 2000 to 5000 signals	3BSE091843R1	
	Client Signal Expansion 5000 to 10000 signals	3BSE091844R1	

Compact HMI 800 6.0.1 Expansion

Compact HMI Base System

Signal Additions

Signal Additions		Article no.	
	Signals additions for Compact HMI base system. (Max 10,000 signals)		
	Compact HMI Base System signals, 50 50 Signals for Compact HMI 6.0.1 Base System.	3BSE084257R50	
	Compact HMI Base System signals, 500 500 Signals for Compact HMI 6.0.1 Base System.	3BSE084257R500	
	Compact HMI Base System signals, 2500 2500 Signals for Compact HMI 6.0.1 Base System.	3BSE084257R2500	

Compact HMI Base System

HMI Clients

HMI Operator Workplace Clients		Article no.
	It is possible to have up to 10 workplaces of any type in total.	
	Operator Workplace Client, 200 signals One additional Compact HMI 6.0.1 Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports. Additional clients to a Compact HMI base system need to have an equal number of signals as the base system use.	3BSE084259R200
	Operator Workplace Client, 500 signals One additional Compact HMI 6.0.1 Operator Workplace Client.Process Graphics, Alarm and events, Trends, Reports. Additional clients to a Compact HMI base system need to have an equal number of signals as the base system use.	3BSE084259R500
	Operator Workplace Client, 1000 signals One additional Compact HMI 6.0.1 Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports. Additional clients to a Compact HMI base system need to have an equal number of signals as the base system use.	3BSE084259R1000
	Operator Workplace Client, 2000 signals One additional Compact HMI 6.0.1 Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports. Additional clients to a Compact HMI base system need to have an equal number of signals as the base system use.	3BSE084259R2000
	Operator Workplace Client, 5000 signals One additional Compact HMI 6.0.1 Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports. Additional clients to a Compact HMI base system need to have an equal number of signals as the base system use.	3BSE084259R5000
	Operator Workplace Client, 10000 signals One additional Compact HMI Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports. Additional clients to a Compact HMI base system need to have an equal number of signals as the base system use.	3BSE084259R5001

Compact HMI Base System

Office Workplaces

C HMI Smart Client Workplace	Article no.	
Compact HMI 6.0.1 Smart Client Workplace. Includes access to system information from the office network. Possibility to view Process Graphics 2 displays, trend displays, build/view business graphics and historic data.	3BSE084261R1	

Compact HMI Base System

Client Signal Expansions

Client Signal Expansions		Article no.	
	Client Signal Expansion, 200 to 500 Compact HMI 6.0.1 Operator Workplace Client Signal Expansion from 200 to 500 Signals	3BSE084258R200	
	Client Signal Expansion, 500 to 1000 Compact HMI 6.0.1 Operator Workplace Client Signal Expansion from 500 to 1000 Signals	3BSE084258R500	
	Client Signal Expansion, 1000 to 2000 Compact HMI 6.0.1 Operator Workplace Client Signal Expansion from 1000 to 2000 Signals	3BSE084258R1000	
	Client Signal Expansion, 2000 to 5000 Compact HMI 6.0.1 Operator Workplace Client Signal Expansion from 2000 to 5000 Signals	3BSE084258R2000	
	Client Signal Expansion, 5000 to 10000 Compact HMI 6.0.1 Operator Workplace Client Signal Expansion from 5000 to 10000 Signals	3BSE084258R5000	

Compact HMI 800 5.1 Expansion

Compact HMI Base System

Signal Additions

Signal Additions		Article no.
	Signal additions for Compact HMI 5.1 Base System. (Total max 10 000)	
	50 Signals	3BSE064066R50
	500 Signals	3BSE064066R500
	2500 Signals	3BSE064066R2500

Compact HMI Base System

HMI System Options

Article no.	
3BSE064069R1	

Compact HMI Base System

HMI Operator Workplace Clients

HMI Operator Workplace Clients		Article no.
	It is possible to have up to 10 workplaces of any type in total. Additional clients to a Compact HMI base system need to have a equal number of signals as the base system use.	
	Operator Workplace Client – 200 Signals One additional Compact HMI Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE064068R200
	Operator Workplace Client – 500 Signals One additional Compact HMI Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE064068R500
	Operator Workplace Client – 1000 Signals One additional Compact HMI Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE064068R100
	Operator Workplace Client – 2000 Signals One additional Compact HMI Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE064068R2000
	Operator Workplace Client – 5000 Signals One additional Compact HMI Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE064068R5000
	Operator Workplace Client – 10000 Signals One additional Compact HMI Operator Workplace Client, Process Graphics, Alarm and events, Trends, Reports.	3BSE064068R5001

Compact HMI Base System

HMI Remote Clients

HMI Operator Workplace Remote Clients		Article no.
	Note: It is possible to have up to 10 workplaces of any type in total. Additional clients to a Compact HMI base system need to have a equal number of signals as the base system use.	
	HMI Operator Workplace Remote Client - 200 Signals One additional Remote Compact HMI Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports.	3BSE064070R200
	HMI Operator Workplace Remote Client - 500 Signals One additional Remote Compact HMI Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports.	3BSE064070R500
	HMI Operator Workplace Remote Client - 1000 Signals One additional Remote Compact HMI Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports.	3BSE064070R1000
	HMI Operator Workplace Remote Client - 2000 Signals One additional Remote Compact HMI Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports.	3BSE064070R2000
	HMI Operator Workplace Remote Client - 5000 Signals One additional Remote Compact HMI Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports.	3BSE064070R5000
	HMI Operator Workplace Remote Client - 10000 Signals One additional Remote Compact HMI Operator Workplace Client. Process Graphics, Alarm and events, Trends, Reports.	3BSE064070R5001

Compact HMI Base System

Office Workplaces

Office Workplaces		Article no.	
	C HMI Smart Client Workplace Includes access to system information from the office network.	3BSE079194R10	
	Possibility to view Process Graphics 2 displays, Trend displays, Build/view business graphics, historic data.		

Compact HMI Base System

Client Signal Expansions

ent Signal Expansions		Article no.	
	Compact HMI Operator Workplace Client Signal Expansion from 200 to 10 000 signals.		
	Client Signal Expansion from 200 to 500 Signals	3BSE064067R200	
	Client Signal Expansion from 500 to 1000 Signals	3BSE064067R500	
	Client Signal Expansion from 1000 to 2000 Signals	3BSE064067R1000	
	Client Signal Expansion from 2000 to 5000 Signals	3BSE064067R2000	
	Client Signal Expansion from 5000 to 10000 Signals	3BSE064067R5000	

Panel 800 is a user-friendly, intuitive and ergonomic operator panel that combines slim, space saving dimensions with a comprehensive range of advanced functions.

All panels are equipped with advanced functionality for process and equipment control, maneuvered either by function keys located next to the screen or by touching the LCD display. Combined with market leading performance and stunning graphical ability, the Panel 800 erodes the line between ordinary Operator Panels and PC based HMIs.

Panel 800 is designed specifically for ABB Control Network and AC 800M controllers, but thanks to the extensive driver library, the Panel 800 is compatible with most makes of PLC and ABB legacy control systems. When using it together with AC 800M, certain unique features become available, such as integrated alarm handling with the controller.

Panel 800 consists of a modern powerful hardware platform, which enables a very limited mounting depth. The frame is made of powder-coated aluminum, giving the panels a very robust look-and-feel. Adding to the already well established feature rich version 6 our new Rugged and Black panels are designed to perform in challenging harsh environments. Whether it is heavy outdoor use, usage in areas with explosion risk, or ship bridge use in marine applications, they are ready to provide you with the information needed.

The Panel 800 Version 6 works primarily in an object-oriented way, making it easy to understand and use. Configuration is carried out on a PC using the Panel Builder configuration tool. The project can then be transferred and stored in the operator panel itself.



Specifications Panel 800 Version 6

Standard panels











Panel	PP871	PP874	PP877	PP874K	PP877K
Display size	4.3"	7"	10.4"	7"	10,4"
Display resolution, ratio	480 × 272 (16:9)	800 × 480 (16:9)	640 × 480 (4:3)	840 x 480 (16:9)	640 × 480 (4:3)
Processor	ARM9 (400 MHz)				
Main memory	128 MB (DDR2)				
External storage media	1 × SD card slot (or S	DHC with latest image lo	aded)		
Dimension W×H×D (mm)	145 × 103 × 49	204 × 143 × 49	280 × 228 × 51	280 × 228 × 51	410 × 286 × 83
Net weight (kg)	0.5	0.8	1.5	1.7	3.8
Power supply	+24 VDC (18-32 VDC)			
Operating temperature	-10 to +60 °C				
Certification			'		
CE	CE		1	CE	
UL	UL 508			UL	
Marine	DNV	DNV			
RoHS compliance	EN 50581:2012				
WEEE compliance	DIRECTIVE/2012/19	/EU			

Specifications Panel 800 Version 6

High performance panels





Panel	PP882	PP885	
Display size	12.1"	15.4"	
Display resolution, ratio	1280 x 800 (16:10)		
Processor	Intel® Atom (1.1GHz)		
Main memory	1 GB (DDR2)		
External storage media	1 × SD card slot (or SDHC with latest imag	e loaded)	
Dimension W×H×D (mm)	340 × 242 × 79	410 × 286 × 83	
Net weight (kg)	2.6	3.85	
Power supply	+24 VDC (18-32 VDC)		
Operating temperature	-10 to +50 °C		
Certification			
CE	CE	CE	
UL	UL 508	UL 508	
RoHS compliance	EN 50581:2012		
WEEE compliance	DIRECTIVE/2012/19/EU		

Specifications Panel 800 Version 6

Black panels





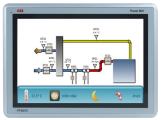


Panel	PP874M	PP885M	PP885H	
Display size	7"	15.4"	15.4"	
Display resolution, ratio	800 x 480 (16:9)	1280 x 800 (16:10)		
Processor	ARM9 400MHz	1.0 GHz Intel® Atom™		
Main memory	128 MB	1 GB		
External storage media	1 × SD card slot (or SDHC wit	th latest image loaded)		
Dimension W×H×D (mm)	204 × 143 × 52.2	52.2 410 × 286 × 83		
Net weight (kg)	0.8	4.4		
Power supply	24 VDC (18-32 VDC)			
Operating temperature	-15 to +55 °C	-15 to +55 °C		
Certification				
CE	EN61000-6-4, EN61000-6-2			
UL	UL/cUL 508	UL/cUL 61010-2-201 (rep	acement for UL 508)	
Marine	DNV, GL, ABS, LR, KR	DNV, GL, ABS, LR		
RoHS compliance	EN 50581:2012	·		
WEEE compliance	DIRECTIVE/2012/19/EU			

Specifications Panel 800 Version 6

Rugged panels







Panel	PP880R	PP885R	PP886H	
Display size	7"	15.4"	15.4"	
Display resolution, ratio	800 x 480 (16:9)	1280 x 800 (16:10)		
Processor	1.0 GHz Intel® Atom™	1.6 GHz Intel® Atom™		
Main memory	1 GB			
External storage media	1 × SD card slot (or SDHC wit	th latest image loaded)		
Dimension W×H×D (mm)	204 × 143 × 73	410 × 286 × 83		
Net weight (kg)	1.4	4.7		
Power supply	12 or 24 VDC (10-32 VDC)	12 or 24 VDC (10-32 VDC)		
Operating temperature	-30 to +70 °C			
Certification				
CE	EN61000-6-4, EN61000-6-2			
UL	UL/cUL 61010-2-201 (replace	ment for UL 508), UL50E Type 4X	Outdoor	
Marine	DNV, GL, ABS, LR, KR	DNV, GL, ABS, LR		
Hazardous	UI/cUL 12.12.01 (UL1604 replacement) Class I Div 2, ATEX (Zone 2), IECEx Ex nA IIC Gc, IEC 60079-0 and IEC 60079-15			
RoHS compliance	EN 50581:2012			
WEEE compliance	DIRECTIVE/2012/19/EU			

Software Management Program

Control System Lifecycle Management Program



Automation Sentinel is the ABB control system lifecycle support program. An introductory trial period to the Automation Sentinel program will be included, at no additional cost, with each new ABB control system software delivery.

Please contact your designated Automation Sentinel responsible for any questions or please refer to the Automation Sentinel product guide for detailed information on the program and on how to calculate and order Automation Sentinel subscriptions.

Read more about our Automation Sentinel Program and its many valuable services here: http://new.abb.com/control-systems/service/offerings/service-agreements

Upgrade Orders		Article no.	
	Panel Builder 800 Version 6, upgrade Media folder with Panel Builder 800 Version 6 containing the latest version of: Panel Builder 800 Version 6 Panel 800 Runtime Firmware for panels Manuals as pdf-files Release Notes Mouse Pad Renewed license	3BSE069301R1	
	This item can be ordered by users with a valid Automation Sentinel agreement for Panel Builder 800 Version 5.		

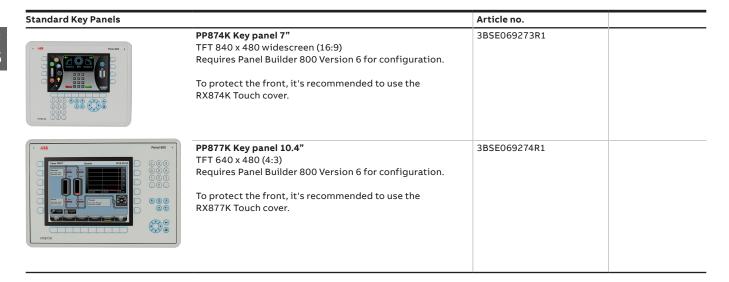
Panel 800 Version 6

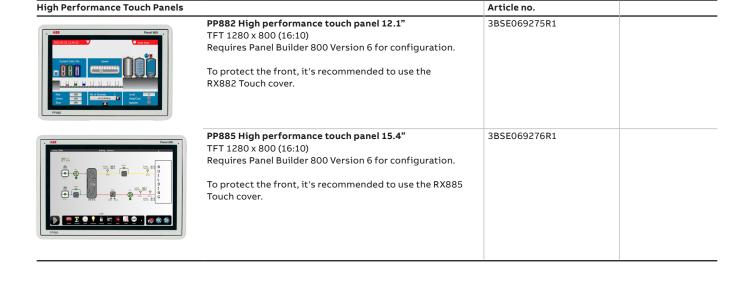
Panel Builder 800

Panel Builder 800		Article no.	
	Panel Builder 800 is the engineering tool for Panel 800.		
Page Spales 801 Spales of 91	Panel Builder 800 Version 6 Media folder with Panel Builder 800 Version 6 containing the latest version of: Panel Builder 800 Version 6 Panel 800 Runtime Firmware for panels Manuals as pdf-files Release Notes Mouse Pad License for one Panel Builder 800 Version 6	3BSE069300R1	

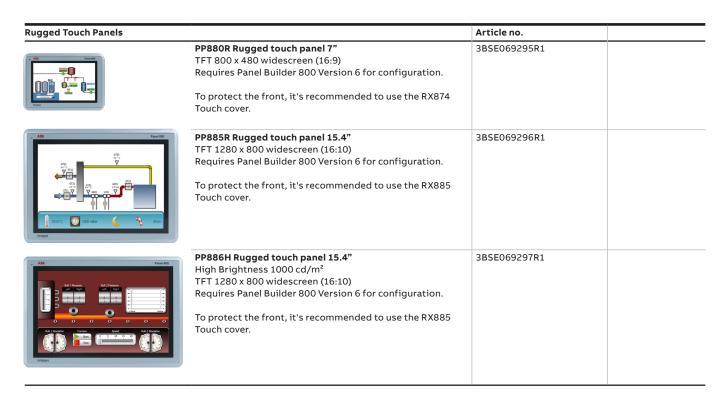
Operator Panels

Standard Touch Panels		Article no.	
	PP871 Touch panel 4.3" TFT 480 x 272 (16:9) Requires Panel Builder 800 Version 6 for configuration.	3BSE069270R2	
	To protect the front, it's recommended to use the RX871 Touch cover.		
Proof to .	PP874 Touch panel 7" TFT 800 x 480 (16:9) Requires Panel Builder 800 Version 6 for configuration. To protect the front, it's recommended to use the RX874 Touch cover.	3BSE069271R2	
All Paul 60	PP877 Touch panel 10.4" TFT 640 x 480 (4:3) Requires Panel Builder 800 Version 6 for configuration. To protect the front, it's recommended to use the RX877 Touch cover.	3BSE069272R2	





Black Touch Panels		Article no.
## The state of th	PP874M Black touch panel 7" TFT 800 x 480 widescreen (16:9) Requires Panel Builder 800 Version 6 for configuration. To protect the front, it's recommended to use the RX874 Touch cover.	3BSE069279R1
	PP885M Black touch panel 15.4" TFT 1280 x 800 widescreen (16:10) Requires Panel Builder 800 Version 6 for configuration. To protect the front, it's recommended to use the RX885 Touch cover.	3BSE069280R1
	PP885H Black touch panel 15.4" High Brightness 1000 cd/m² TFT 1280 x 800 widescreen (16:10) Requires Panel Builder 800 Version 6 for configuration. To protect the front, it's recommended to use the RX885 Touch cover.	3BSE069281R1



Dongles

Dongles		Article no.	
	Requires Panel 800 Runtime Version 6 to be installed on the PC. The USB dongle enables the runtime and the ampont of signals. Enables the possibility to run Panel 800 version 6 applications in a PC, using Panel 800 runtime.		
	Panel 800 Version 6 dongle 250 tags.	3BSE069282R1	
	Panel 800 Version 6 dongle 2000 tags.	3BSE069283R1	
	Panel 800 Version 6 dongle 4000 tags.	3BSE069284R1	

Panel 800 Version 6

Accessories

Communication Interface for Panel 800	Article no.	
CB802 Profibus DP Communication Interface PROFIBUS DP slave expansion module for Panel 800 Version 6 panels. Not possible to use for PP885M, PP885H, PP880R, PP885R nor PP886H. Not marine certified.	3BSE069285R1	
CB810 USB to Ethernet adapter for programming USB to Ethernet adapter with software. Cross over Ethernet patch cable included.	3BSE042255R1	

Connection Cables for Panel 800		Article no.
	TK858V002 Adapter cable (CAB107) Adapter cable RS232 - RS485 0.2 m 9 pin D-Sub to 25 pin D-Sub. For using 5.1 RS422/485 cables on Version 6 panels.	3BSE069474R1
	TK859V000 Gender changer Gender changer 9 pin D-Sub male/male.	3BSE069475R1
	TK860V001 Splitter cable (CAB 109) Splitter cable Version 6 panel. Y-split cable to utilize more than two COM ports on Version 6 panels.	3BSE069476R1

ront Protections		Article no.	
	Plastic cover, front protections can be used to protect the screen of Panel 800 panels.		
	RX871 Touch cover for PP871	3BSE069286R1	
	RX874 Touch cover for PP874 Also possible to use for PP874M and PP880R	3BSE069287R1	
	RX877 Touch cover for PP877	3BSE069288R1	
	RX874K Key cover for PP874K	3BSE069289R1	
	RX877K Key cover for PP877K	3BSE069290R1	
	RX882 Touch cover for PP882	3BSE069291R1	
	RX885 Touch cover for PP885 Also possible to use for PP885R, PP885M, PP885H, PP886H	3BSE069292R1	

AC 800M Processor Units

CPU Modules

Several CPU modules are available that vary in terms of processing power, memory size, and redundancy support. Each CPU module is equipped with built in Ethernet port(s) for communication with other controllers and for interaction with operators, engineers, managers, and higher level applications. These ports can be configured for redundancy for those cases where availability is of paramount importance. It is also equipped with two RS-232C ports that can be used for point-to-point communication with programming/debugging tools and with third-party systems and devices.

The AC 800M controller can be configured with Compact Control Builder.

Communication & I/O Modules

To each CPU module, a number of communication and I/O modules can be added, for example:

- Additional RS-232C ports
- PROFIBUS DP, PROFINET IO
- DeviceNet
- IEC 61850
- · Ethernet IP
- MasterBus 300
- MODBUS TCP
- S100 I/OS800 I/O



AC 800M controller with CI modules on left side and S800 IO module on right side



AC 800M controller PM891

AC 800M Controllers selection guide

Features / CPUs	PM851A	PM856A	PM858	PM860A	PM862		
Processor Unit	PM851AK01 incl: 1 PM851 CPU and required optional items	PM856AK01 incl: 1 PM856 CPU and required optional items	PM858K01 incl: 1 PM858 CPU and required optional items PM858K02 incl: 2 PM858K01	PM860AK01 incl: 1 PM860 CPU and required optional items	PM862K01 incl: 1 PM862 CPU and required optional items. PM862K02 incl: 2 PM862K01		
Optional items (partly included in Processor Units, see Price List)	TB853 RCU-link term, T Short Distance Modem	B851/TB855/TB856 RC , TK853V020 Modem cal	CEX-bus cable, TB807, N U-link cable, SB822 Exte ble, BC810K02, BC820K0 Supply, SS832 Voting U	rnal Battery Unit, TK212 2, CEX-bus Interconnec	A Tool cable, TC562		
Clock frequency	24 MHz	24 MHz	33 MHz	48 MHz	67 MHz		
Memory (RAM)	8 MB	8 MB	16MB	8 MB	32 MB		
From 5.1 FP4	12 MB	16 MB		16 MB			
RAM available for application	2.282 MB	2.282 MB	7.147 MB	2.282 MB	23.521 MB		
From 5.1 FP4	6.253 MB	10.337 MB	-	10.346 MB			
Processor type	MPC860	MPC860	MPC866	MPC860	MPC866		
Flash memory for storage of application and data	Yes	Yes	Yes	Yes	Yes		
CPU redundancy support	No	No	Yes	No	Yes		
Switch over time in red. conf.	-	-	max 10 ms	-	max 10 ms		
Performance, 1000 boolean operations (a:=b and c)	0.46 ms	0.46 ms	0.36 ms	0.23 ms	0.18 ms		
No. controllers per control projects	32						
No. of applications per control project	1024						
No. of applications per controller	32	32					
No. of programs per application	64						
No. of tasks per controller	32						
Number of different cycle times	32						
Cycle time per application programs	Down to 1 ms						
Flash PROM for firmware storage	2 MB	2 MB	4 MB	2 MB	4 MB		
Power supply	24 V DC (19.2-30 V DC)	max 5 % ripple acc. to IE	C 61131-2				
Power consumption +24 V	typ/max 180/300 mA	typ/max 180/300 mA	typ/max 210/360 mA	typ/max 180/300 mA	typ/max 210/360 mA		
Power dissipation	typ 4.32 W	typ 4.32 W	typ 5.1 W	typ 4.32 W	5.1 W		
Power Reservoir	Internal 5 ms power res	servoir, sufficient for the	CPU to make a controlle	ed power down			
Power supply connector	Detachable 4-pole scre	w terminal block					
Redundant power supply status inputs	Yes: 2 inputs designated SA, SB (Max 30 V, high level >15 V, low level < 8 V)						
Built-in back-up battery	Type: Lithium, 3.6 V, 0.9	95 Ah, size 1/2 AA, 0.3 g I	Lithium content				
Real-time clock stability	100 ppm (approx. 1 h/)	/ear)					
Clock synchronization	1 ms between AC 800M	1 controllers by CNCP pro	otocol				
Comm. modules on CEX bus	1	12	12	12	12		
Supply current on CEX bus	Supply current: Max 24	V - 2.4 A (fuse 3.15 A fas	t, PM891 has an embedo	led auto fuse)			
I/O clusters on Modulebus with non-redundant CPU	1 el. + 1 opt.	1 el. + 7 opt.	1 el. + 7 opt.	1 el. + 7 opt.	1 el. + 7 opt.		
I/O clusters on Modulebus with redundant CPU	NA	NA	0 el. + 7 opt.	NA	0 el. + 7 opt.		

Features / CPUs	PM851A	PM856A	PM858	PM860A	PM862	
I/O capacity on Modulebus with non-redundant/ redundant CPU	Max 24/NA I/O modules	Max 96/NA I/O modules	Max 96/84 I/O modules	Max 96/NA I/O modules	Max 96/84 I/O modules	
Modulebus scan rate	0 - 100 ms (actual time	0 - 100 ms (actual time depending on number of I/O modules)				
Supply current on Electrical Modulebus	Supply current: Max 24 V - 1.0 A (short circuit proof, fuse 2.0 A), Max 5 V - 1.5 A (short circuit proof)					
I/O capacity on PROFIBUS (remote I/O)	Max 99 I/O stations (m	Max 99 I/O stations (max 62 redundant I/O stations), max 24 I/O modules per I/O station (max 12 redundant I/O pairs)				
Ethernet channels	1	2	2	2	2	
Ethernet interface	Ethernet (IEEE 802.3),	10 Mbit/s, RJ-45, fem	ale (8-pole)			
Control Network protocol	MMS (Manufacturing N	1essage Service) and	IAC (Inter Application C	ommunication)		
Recommended Control Network backbone	100 Mbit/s switched E	thernet				
No. of controllers on Control Network	max 50					
RS-232C interface	2 (one general, 1 for se	rvice tool)				
RS-232C interface (COM3) (non red.conf. only)	RS-232C, 75-19 200 ba	ud, RJ-45 female (8-p	oole), not opto isolated,	full RTS-CTS support		
RS-232C interface (COM4) (non red.conf. only)	RS-232C, 9 600 baud, F	RS-232C, 9 600 baud, RJ-45 female (8-pole), opto isolated, no RTS-CTS support				
Temperature Operating Storage	·	+5 to +55 °C (+41 to +131 °F) -40 to +70 °C (-40 to +158 °F)				
Temperature changes	3 °C/minutes according	g to IEC/EN 61131-2				
Altitude	2000 m according to IE	C/EN 61131-2		,		
Pollution degree	Degree 2 according to	IEC/EN 61131-2				
Corrosion protection	G3 compliant to ISA 71	.04				
Vibration	10 < f < 50 Hz: 0.0375 n	nm amplitude, 50 < f <	< 150 Hz: 0.5 g accelerat	ion, 5 < f < 500 Hz: 0.2 g	acceleration	
Emitted noise	< 55 dB (A)					
Shock, no package	150 m/s2 in 11 ms, 20	g in 3 ms				
Relative humidity	5 to 95 %, non-conden	sing				
Isolation voltage	Type test voltage: 500	V AC (corresponding	to 700 V DC)			
Environmental conditions	Industrial					
Protection class	IP20 according to EN 6	0529, IEC 529				
Certificates and Standards ⁽¹⁾	CE- marking: Meets EMC directive 2004/108/EC acc. to EN 61000-6-4, EN 61000-6-2 and Low Voltage Directive acc. to EN 61131-2 Electrical Safety: EN 50178, IEC 61131-2, UL 508 Hazardous location: UL 60079-15, cULus Class 1, Zone 2, AEx nA IIC T4, ExnA IIC T4Gc X RoHS compliance: EN 50581:2012 WEEE compliance: DIRECTIVE/2012/19/EU					
TÜV Approval	No	No	No	No	No	
Emission	Tested according to EN	N 61000-6-4 EMC – Ge	neric Emission Standar	d, Part 2 – Industrial Env	ironment	
Immunity	Tested according to EN	l 61000-6-2 EMC – Ge	neric Immunity Standa	d, Part 2 – Industrial Env	rironment	
Dimensions	Width 119 x Height 186	5 x Depth 135 mm (4.7	' x 7.3 x 5.3 in.)		'	
Weight (including base)	1100 g (2.4 lbs)	1100 g (2.4 lbs)	1200 g (2.6 lbs)	1100 g (2.4 lbs)	1200 g (2.6 lbs)	

⁽¹⁾ For detailed information on each module, please visit: www.compacthardwareselector.com

Features / CPUs	PM866A	PM891		
Processor Unit	PM866AK01 incl: 1 PM866A CPU and required optional items PM866AK02 incl: 2 PM866AK01	PM891K01 incl: 1 PM891 CPU and required optional items PM891K02 incl: 2 PM891K01		
Optional items (partly included in Processor Units, see Price List)	TP830 Baseplate, TP850 CEX-bus term., TK850 CEX-bus cable, TB807, Modulebus term, Battery RAM backup, TB851 RB853 RCU-link term, TB851/TB855/TB856 RCU-link cable, SB822 External Battery Unit, TK212A Tool cable, TC562 Short Distance Modem, TK853V020 Modem cable, BC810K02, BC820K02, CEX-bus Interconnection unit; TK851V01 Connection cable, SD831/SD832/SD833 Power Supply, SS832 Voting Unit, Mains Breaker Kit.			
Clock frequency	133 MHz	450 MHz		
Memory (RAM) From 5.1 FP4	64 MB	256 MB		
RAM available for application	51.389 MB	208.985 MB		
Processor type	MPC866	MPC8270		
Flash memory for storage of application and data	Yes	Yes		
CPU redundancy support	Yes	Yes		
Switch over time in red. conf.	max 10 ms	max 10 ms		
Performance, 1000 boolean operations (a:=b and c)	0.09 ms	0.043 ms		
No. controllers per control projects	32			
No. of applications per control project	1024			
No. of applications per controller	32			
No. of programs per application	64			
No. of tasks per controller	32			
Number of different cycle times	32			
Cycle time per application programs	Down to 1 ms			
Flash PROM for firmware storage	4 MB	16 MB		
Power supply	24 V DC (19.2-30 V DC) max 5 % ripple acc. to IEC 61131-2			
Power consumption +24 V	typ/max 210/360 mA	typ/max 660/750 mA		
Power dissipation typ.	5.1 W	15.8 W		
Power Reservoir	Internal 5 ms power reservoir, sufficient for the CPU to mal	ke a controlled power down		
Power supply connector	Detachable 4-pole screw terminal block			
Redundant power supply status inputs	Yes: 2 inputs designated SA, SB (Max 30 V, high level >15 V,	low level < 8 V)		
Built-in back-up battery	Type: Lithium, 3.6 V, 0.95 Ah, size 1/2 AA, 0.3 g Lithium content	No		
Real-time clock stability	100 ppm (approx. 1 h/year)	50 ppm		
Clock synchronization	1 ms between AC 800M controllers by CNCP protocol			
Comm. modules on CEX bus	12	12		
Supply current on CEX bus	Supply current: Max 24 V - 2.4 A (fuse 3.15 A fast, PM891 ha			
/O clusters on Modulebus with non-redundant CPU	1 el. + 7 opt.	0 el. + 7 opt.		
/O clusters on Modulebus with redundant CPU	0 el. + 7 opt.	0 el. + 7 opt.		
I/O capacity on Modulebus with non-redundant/ redundant CPU	Max 96/84 I/O modules	Max 84/84 I/O modules		
Modulebus scan rate	0 - 100 ms (actual time depending on number of I/O modul	es), 0 - 300 for PM865 and PM867		
Supply current on Electrical Modulebus	Supply current: Max 24 V - 1.0 A (short circuit proof, fuse 2.0 A), Max 5 V - 1.5 A (short circuit proof)	Not supported		
I/O capacity on PROFIBUS (remote I/O)	Max 99 I/O stations (max 62 redundant I/O stations), max	24 I/O modules per I/O station (max 12 redundant I/O pair		

Features / CPUs	PM866A	PM891	
Ethernet channels	2	2	
Ethernet interface	Ethernet (IEEE 802.3), 10 Mbit/s, RJ-45, female (8-pole)	10/100 Mbit/s	
Control Network protocol	MMS (Manufacturing Message Service) and IAC (Inter Application Communication)		
Recommended Control Network backbone	100 Mbit/s switched Ethernet		
No of controllers on Control Network	max 50		
RS-232C interface	2 (one general, 1 for service tool)	1 for service tool (COM 4)	
RS-232C interface (COM3) (non red.conf. only)	RS-232C, 75-19 200 baud, RJ-45 female (8-pole), not opto isolated, full RTS-CTS support	Not supported	
RS-232C interface (COM4) (non red.conf. only)	RS-232C, 9 600 baud, RJ-45 female (8-pole), opto isolated,	no RTS-CTS support	
Temperature Operating Storage	+5 to +55 °C (+41 to +131 °F) -40 to +70 °C (-40 to +158 °F)		
Temperature changes	3 °C/minutes according to IEC/EN 61131-2		
Altitude	2000 m according to IEC/EN 61131-2		
Pollution degree	Degree 2 according to IEC/EN 61131-2		
Corrosion protection	G3 compliant to ISA 71.04		
Vibration	10 < f < 50 Hz: 0.0375 mm amplitude, 50 < f < 150 Hz: 0.5 g a	acceleration, 5 < f < 500 Hz: 0.2 g acceleration	
Emitted noise	< 55 dB (A)		
Shock, no package	150 m/s2 in 11 ms, 20 g in 3 ms		
Relative humidity	5 to 95 %, non-condensing		
Isolation voltage	Type test voltage: 500 V AC (corresponding to 700 V DC)		
Environmental conditions	Industrial		
Protection class	IP20 according to EN 60529, IEC 529		
Certificates and Standards ⁽¹⁾	CE- marking: Meets EMC directive 2004/108/EC acc. to EN 61000-6-4, EN 61000-6-2 and Low Voltage Directive acc. to EN 61131-2 Electrical Safety: EN 50178, IEC 61131-2, UL 508 Hazardous location: UL 60079-15, cULus Class 1, Zone 2, AEx nA IIC T4, ExnA IIC T4Gc X RoHS compliance: EN 50581:2012 WEEE compliance: DIRECTIVE/2012/19/EU		
TÜV Apparoval	No	No	
Emission	Tested according to EN 61000-6-4 EMC – Generic Emission	Standard, Part 2 – Industrial Environment	
Immunity	Tested according to EN 61000-6-2 EMC – Generic Immunity	Standard, Part 2 – Industrial Environment	
Dimensions	Width 119 x Height 186 x Depth 135 mm (4.7 x 7.3 x 5.3 in.)	Width 174 x Height 186 x Depth 94 mm	
Weight (including base)	1200 g (2.6 lbs)	1600 g (3.5 lbs)	

(1) For detailed information on each module, please visit: www.compacthardwareselector.com

Features	BC810	BC820		
Article number	3BSE031155R1	3BSE071500R1		
Redundancy	Yes	Yes		
High Integrity	Yes	No		
Performance	Hot swap supported	Hot swap supported		
Power supply	Inputs designated L+ and L- 24 V nominal,	variation between 19.2 V DC and 30 V DC.		
Power consumption +24 V typ/max	50 mA typical (70 mA max)	120 mA typical (200 mA max)		
Power dissipation typ.	1.2 W typical	2.9 W typical		
Temperature, Operating	+5 to +55 °C (+41 to +131 °F)			
Temperature, Storage	-40 to +70 °C (-40 to +158 °F)			
Relative humidity	5 to 95 %, non-condensing	5 to 95 %, non-condensing		
Protection class	IP20 according to EN60529, IEC 529			
CE- marking	Yes			
Electrical Safety	UL508	UL-certification pending		
Hazardous location	cULus Class 1, Zone 2, AEx nA IIC T4, ExnA	IIC T4Gc X		
Marine certificates	ABS, BV, DNV-GL, LR, RS, CCS	ABS, BV, DNV-GL, LR		
RoHS compliance	EN 50581:2012			
WEEE compliance	DIRECTIVE/2012/19/EU			
Height	185 mm (7.3 in.)	185 mm (7.3 in.)		
Width	59 mm (2.9 in.)	59 mm (2.9 in.)		
Depth	127.5 mm (5.0 in.)	127.5 mm (5.0 in.)		
Weight	1.5 kg (3.31 lbs) (BC810K02 package)	1.4 kg (3.1 lbs) (BC820K02 package)		

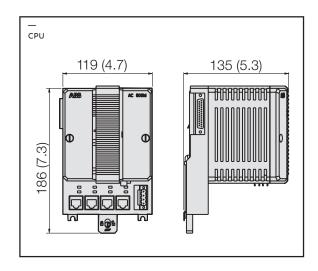
Supported Communication modules	RS-232 C	PROFIBUS DP	МВ300	S100 I/O	INSUM	Drivebus
Module	CI853	CI854B	CI855	CI856	CI857	CI858
Article number	3BSE 018103R1	3BSE069449R1	3BSE018106R1	3BSE026055R1	3BSE018144R1	3BSE018135R1
Protocol	MODBUS RTU master, COMLI master/ slave, Siemens 3964R master, User defined protocols	DP-V1 (PA via Linking Device)	MasterBus 300	ABB's S100 I/O	IEEE 802.3	ABB's DriveBus
Master or slave	Master/slave	Master	Master/slave	Master	Master	Master
Number of channels	2	2	2	1	1	1 main, 2 aux
Max units on CEX bus	12	12	12	12	6	2
Transmission speed	75 - 19 200 b/s	9.6 - 12,000kbit/s	10 Mbit/s, 200 Datasets/s	-	10 Mbit/s	4 Mbit/s
Cable redundancy	No	Yes	Yes	No	No	No
Module redundancy	No	Yes	No	No	No	No
Hot Swap	Yes	Yes	Yes	Yes	Yes	Yes
Connectors	RJ-45 female (8-pin)	DB female (9-pin)	RJ-45 female (8-pin)	Miniribbon (36-pin)	RJ-45 female (8-pin)	Fiberoptic
24 V current consumption	typ 100 mA	typ 190 mA	typ 150 mA	typ 200 mA	typ 150 mA	typ 200 mA
Protection class	IP20 according to E	N60529, IEC 529				
Certification (1)						
CE-marked	Yes	Yes	Yes	Yes	Yes	Yes
UL 508	Yes	Yes	Yes	Yes	Yes	Yes
UL 60079-15 (Class 1 Zone 2)	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliance	EN 50581:2012	EN 50581:2012				
WEEE compliance	DIRECTIVE/2012/19	DIRECTIVE/2012/19/EU				
Dimensions	Width 58 x Height 1	Width 58 x Height 186 x Depth 135 mm (2.3 x 7.3 x 5.3 in.)				
Weight (including base)	520 g (1.2 lbs)	700 g (1.5 lbs)	700 g (1.5 lbs)	600 g (1.3 lbs)	600 g (1.3 lbs)	700 g (1.5 lbs)

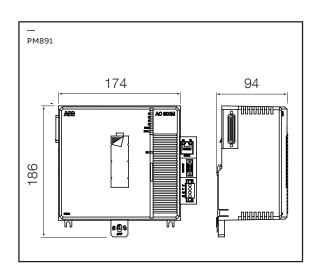
⁽¹⁾ For detailed information on each module, please visit: www.compacthardwareselector.com

Supported Communication modules	MODBUS TCP	IEC 61850	AF100	PROFINET IO	EtherNet/IP DeviceNet
Module	CI867	CI868	CI869	CI871	CI873
Article number	3BSE043660R1	3BSE048845R1	3BSE049110R1	3BSE056767R1	3BSE056899R1
Protocol	MODBUS TCP	IEC 61850	Advant Fieldbus 100	PROFINET IO	EtherNet/IP DeviceNet (via LD800DN)
Master or slave	Master/slave	Master	Slave	Master	Master
Number of channels	2	1	2	1	1
Max units on CEX bus	12	4	4	12	4
Transmission speed	10/100 Mbit/s (Ch1), 10 Mbit/s (Ch2)	10/100 Mbit/s	Up to 500 Kbit/s	10/100 Mbit/s	10/100 Mbit/s
Cable redundancy	No	No	Yes	No	No
Module redundancy	Yes	No	Yes	No	Yes
Hot Swap	Yes	Yes	Yes	Yes	Yes
Connectors	RJ-45 female (8-pin)	RJ-45 female (8-pin)	Phoenix (4-pin)	RJ-45 female (8-pin)	RJ-45 female (8-pin)
24 V current consumption	typ 160 mA	typ 160 mA	typ 160 mA	typ 160 mA	typ 160 mA
Protection class	IP20 according to EN6	0529, IEC 529			
Certification (1)					
CE-marked	Yes	Yes	Yes	Yes	Yes
UL 508	Yes	Yes	Yes	Yes	Yes
UL 60079-15 (Class 1 Zone 2)	Yes	Yes	Yes	Yes	Yes
RoHS compliance	EN 50581:2012				
WEEE compliance	DIRECTIVE/2012/19/EU				
Dimensions	Width 58 x Height 186 x Depth 135 mm (2.3 x 7.3 x 5.3 in.)				
Weight (including base)	700 g (1.5 lbs)	700 g (1.5 lbs)	700 g (1.5 lbs)	700 g (1.5 lbs)	700 g (1.5 lbs)

⁽¹⁾ For detailed information on each module, please visit: www.compacthardwareselector.com

Measurements





AC 800M Hardware

Hardware Upgrade orders

Hardware Upgrade orders

For Hardware Upgrade orders please send your inquiry to Service Center mail box: offer.selog@se.abb.com

ISA-S71.04 level G3 Compliamce

Modules are compliant to ISA-S71.04 level G3, unless explicitly stated differently.

Extended Warranty for AC 800M Hardware

We can offer an extended warranty for one, two, or three years in addition to normal warranty conditions for AC 800M Hardware. See price list Extended Warranty 3BSE049908.

AC 800M Hardware

System Units

System Units



The Tool Cable TK212A is most useful when working with AC 800M. Please order a cable (Item P215) together with your first order of PM851AK01, PM856AK01, PM858K01, PM858K02, PM860AK01, PM861AK01, PM861AK02, PM862K01, PM862K02, PM864AK01, PM864AK02, PM865K01, PM865K02, PM866K01, PM866K02, PM866K01, PM866K02, PM866K01, PM866K02, PM866K01, PM866K02, PM866K02, PM866K02, PM866K01, PM866K02, PM866K02

AC 800M Hardware

AC 800M Processor Units

AC 800M Processor Units		Article no.
ABS AC SOM	PM851AK01 Processor Unit 24 Mhz and 12 MB. Package including: PM851A, CPU TP830, Baseplate, width=115 mm TB850, CEX-bus terminator TB807, ModuleBus terminator Battery for memory backup (4943013-6) No license included	3BSE066485R1
	PM856AK01 Processor Unit 24 Mhz and 12 MB. Package including: PM856A, CPU TP830, Baseplate, width=115 mm TB850, CEX-bus terminator Battery for memory backup (4943013-6) No license included	3BSE066490R1
	PM858K01 Processor Unit 33 Mhz and16 MB. Package including: PM858, CPU TP830, Baseplate, width =115mm TB850, CEX-bus terminator TB807, ModuleBus terminator Battery for memory backup (4943013-6) No license included Only compatible with 800xA 6.0.2, Compact Control Builder 6.0.0-1 and onwards. Please see Product Update for more information.	3BSE082895R1

800M Processor Units		Article no.
ABB AC SIN	PM858K02 Redundant Processor Unit 33 Mhz and 16 MB. Package including: 2 pcs PM858, CPU 2 pcs TP830, Baseplate, width =115mm 2 pcs TB807, ModuleBus terminator 1 pcs TK850, CEX-bus expansion cable 1 pcs TK851, RCU-Link cable 2 pcs Battery for memory backup (4943013-6) No license included Only compatible with 800xA 6.0.2, Compact Control Builder	3BSE082896R1
	6.0.0-1 and onwards. Please see Product Update for more information.	
	PM860AK01 Processor Unit 48 Mhz and 16 MB. Package including: PM860A, CPU TP830, Baseplate, width=115 mm TB850, CEX-bus terminator TB807, ModuleBus terminator Battery for memory backup (4943013-6) No license included	3BSE066495R1
	PM862K01 Processor Unit 67 Mhz and 32 MB. Package including: PM862, CPU TP830, Baseplate, width =115mm TB850, CEX-bus terminator TB807, ModuleBus terminator Battery for memory backup (4943013-6) No license included	3BSE076940R1
	Only compatible with 800xA 6.0.2, Compact Control Builder 6.0.0-1 and onwards. Please see Product Update for more information.	
	PM862K02 Redundant Processor Units Package including: 2 pcs PM862, CPU 2 pcs TP830, Baseplate, width =115mm 2 pcs TB807, ModuleBus terminator 1 pcs TK850, CEX-bus expansion cable 1 pcs TB851, RCU-Link cable 2 pcs Battery for memory backup (4943013-6) No license included	3BSE081636R1
	Only compatible with 800xA 6.0.2, Compact Control Builder 6.0.0-1 and onwards. Please see Product Update for more information.	
	PM866AK01 Processor Unit 133 Mhz and 64 MB. Package including: PM866A, CPU TP830, Baseplate, width =115mm TB850, CEX-bus terminator TB807, ModuleBus terminator TB852, RCU-Link terminator Battery for memory backup (4943013-6) No license included	3BSE076939R1
AZE SOON THE	PM866AK02 Redundant Processor Unit 133 Mhz and 64 MB. Package including: 2 pcs PM866A, CPU 2 pcs TP830, Baseplate, width =115mm 2 pcs TB807, ModuleBus terminator 1 pcs TK850, CEX-bus expansion cable 1 pcs TB851, RCU-Link cable 2 pcs Battery for memory backup (4943013-6) No license included	3BSE081637R1
	PM891K01 Processor Unit 450 Mhz and 256 MB. Package including: PM891 CPU Module TB850, CEX-bus terminator TB853, RCU Control Link Terminator No license included	3BSE053241R1

00M Processor Units		Article no.	
	PM891K02 Redundant Processor Unit 450 Mhz and 256 MB. Package including: 2 pcs PM891K01 Processor Unit 1 pcs TK850V007 CEX-bus Extension Cable 1 pcs TK855 RCU Data Link Cable 1 pcs TK856 RCU Control Link Cable No license included	3BSE053242R1	
	SB822 Rechargeable Battery Unit External DIN-rail mounted rechargeable battery unit including lithium-ion battery, 24V DC connector and connection cable TK821V020. Width=85 mm. Equivalent amount of Lithium metal=0,8 g (0,03 oz)	3BSE018172R1	
SanDisk 29 512. Compartment	MB801V512 Compact Flash card Expansion Compact Flash memory for Panel 800 Version 5. 512 MB	3BSE042257R1	

Extra batteries



For extra Lithium batteries (4943013-6), please refer to ABB Parts Online.

Communication

Serial Interfaces on TP830

Serial Interfaces on TP830		Article no.
	RS232-C interfaces for protocols COMLI, MODBUS, Siemens 3964R, the free-programmable serial protocol etc. Also for connection of engineering tool.	
	TK212A Tool cable RJ45 8P8C plug RJ45 (male) to D-sub 9 (female). RJ45 8P8C plug (with shell). Cable: UL2464 26 AWG x 8C. Length 3 m.	3BSC630197R1
	TC562 Short Distance Modem Length < 10 km. Point-to-point up to 1 km at 19 200 bps. G1 compliant. Power 24V d.c. To be used with Cl531, Cl532Vxx, Cl534Vxx and Cl853. Width = 55 mm	3BSC630049R1
	TK853V020 Modem Cable Modem cable for serial interfaces on TP830. Cable for connection between modem TC562 and TP830. Length 2 m	3BSC950201R1

Communication Interface selection guide

Supported Communication modules	PROFIBUS DP	RS-232 C	MB300	INSUM	Drivebus	S100 I/O	Satt I/O	MODBUS TCP	IEC 61850
Module	CI854B	CI853	CI855	CI857	CI858	CI856	CI865	CI867	CI868
Protocol	DP-V1 (PA via Linking Device)	MODBUS RTU master, COMLI master/ slave, Siemens 3964R master, User defined protocols	MasterBus 300	IEEE 802.3	ABB's DriveBus	ABB'S S100 I/O	ABB'S Satt I/O	MODBUS TCP	IEC 61850

Supported Communication modules	PROFIBUS DP	RS-232 C	МВ300	INSUM	Drivebus	S100 I/O	Satt I/O	MODBUS TCP	IEC 61850
Master or slave	Master	Master/slave	Master/slave	Master	Master	Master	Master	Master/slave	Master
Number of channels	2	2	2	1	1 main, 2 aux	1	1	2	1
Max units on CEX bus	12	12	12	6	2	12	4	12	4
Transmission speed	9.6 - 12,000 kbit/s	75 - 19 200 b/s	10 Mbit/s, 200 Datasets/s	10 Mbit/s	4 Mbit/s	-	-	10/100 Mbit/s (Ch1), 10 Mbit/s (Ch2)	10/100 Mbit/s
Cable redundancy	Yes	No	Yes	No	No	No	No	No	No
Module redundancy	Yes	No	No	No	No	No	No	Yes	No
Hot Swap	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Used together with High Integrity Controller	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Connectors	DB female (9-pin)	RJ-45 female (8-pin)	RJ-45 female (8-pin)	RJ-45 female (8-pin)	Fiberoptic	Miniribbon (36-pin)	BNC	RJ-45 female (8-pin)	RJ-45 female (8-pin)
24 V current consumption	typ 190 mA	typ 100 mA	typ 150 mA	typ 150 mA	typ 200 mA	typ 200 mA	typ 120 mA	typ 160 mA	typ 160 mA
Protection class	IP20 according	to EN60529, IE	C 529						'
Certification									
CE-marked	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL 508	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL 60079-15 (Class 1 Zone 2)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliance	EN 50581:2012	2		·		'		·	
WEEE compliance	DIRECTIVE/20	12/19/EU							
Dimensions	Width 58 x Hei	ght 186 x Depth	135 mm (2.3 x	7.3 x 5.3 in.)					
Weight (including base)	700 g (1.5 lbs)	520 g (1.2 lbs)	700 g (1.5 lbs)	600 g (1.3 lbs)	700 g (1.5 lbs)	600 g (1.3 lbs)	600 g (1.3 lbs)	700 g (1.5 lbs)	700 g (1.5 lbs)

Supported Communication modules	AF100	PROFINET IO	EtherNet/IP DeviceNet			
Module	CI869	CI871	CI873			
Protocol	Advant Fieldbus 100	PROFINET IO	EtherNet/IP DeviceNet (via LD800DN)			
Master or slave	Slave	Master	Master			
Number of channels	2	1	1			
Max units on CEX bus	4	12	4			
Transmission speed	Up to 500 Kbit/s	10/100 Mbit/s	10/100 Mbit/s			
Cable redundancy	Yes	No	No			
Module redundancy	Yes	No	No			
Hot Swap	Yes	Yes	Yes			
Used together with High Integrity Controller	Yes	Yes	Yes			
Connectors	Phoenix (4-pin)	RJ-45 female (8-pin)	RJ-45 female (8-pin)			
24 V current consumption	typ 160 mA	typ 160 mA	typ 160 mA			
Protection class	IP20 according to EN60529, IE	C 529				
UL 508	Yes	Yes	Yes			
UL 60079-15 (Class 1 Zone 2)	Yes	Yes	Yes			
RoHS compliance	EN 50581:2012					
WEEE compliance	DIRECTIVE/2012/19/EU	DIRECTIVE/2012/19/EU				
Dimensions	Width 58 x Height 186 x Depth	135 mm (2.3 x 7.3 x 5.3 in.)				
Weight (including base)	700 g (1.5 lbs)	700 g (1.5 lbs)	700 g (1.5 lbs)			

Communication

Serial Communication Interface

Serial Communication Interface		Article no.	
	RS232-C interfaces for protocols COMLI, MODBUS, Siemens 3964R, the free-programmable serial protocol etc.		
	CI853K01 Dual RS232-C Interface Package including: CI853, Communication Interface TP853, Baseplate, width = 60 mm	3BSE018103R1	

Communication

MODBUS TCP

MODBUS TCP		Article no.	
A S. Milling	CI867K01 Modbus TCP Interface Package including: CI867, Communication Interface TP867, Baseplate, width = 60mm	3BSE043660R1	

Communication

PROFIBUS DP

PROFIBUS DP		Article no.	
	The required PROFIBUS network components (Linking Devices, etc) must be ordered from price list 3BDD013232, PROFIBUS Network Components.		
	CI854BK01 PROFIBUS-DP/V1 Interface Package including: CI854B, Communication Interface TP854, Baseplate, width = 60 mm Only compatible with 800xA 6.0.3.2, Compact Control Builder 6.0.0-2 and onwards. Please see Product Update for more information.	3BSE069449R1	
	CI854AK01 PROFIBUS-DP/V1 interface Package including: CI854, Communication Interface TP854, Baseplate	3BSE030220R1	
	Note! This part is not RoHS 2 2011/65/EU compliant. This is a spare part for systems placed on the market before July 22, 2017 and may only be ordered for repair, reuse, updating of functionalities or upgrading of capacity.		

Communication

PROFINET IO

PROFINET IO		Article no.	
A SHIMING	CI871K01 PROFINET IO Interface Package including: CI871, Communication Interface TP867, Baseplate, width = 60 mm	3BSE056767R1	

Communication

IEC 61850

IEC 61850		Article no.	
	CI868K01 IEC61850 Interface Package including: CI868, Communication Interface TP867, Baseplate, width=60mm	3BSE048845R1	

Communication

Ethernet/IP

Ethernet/IP		Article no.	
	CI873K01 Ethernet/IP Interface Packaging including: CI873, Communication Interface TP867, Baseplate. Width=60mm	3BSE056899R1	
	LD 800DN Linking Device EtherNet/IP to DeviceNet Package including: 1 pcs LD 800DN 1 pcs Installation Guide 2 pcs Termination resistors for DeviceNet, 1/4 W, 121 Ohm. G1 compliant	3BSC690164R1	
	Only to be used with CI873 Communication Interface.		

Communication

Advant Fieldbus 100

Advant Fieldbus 100		Article no.	
	CI869K01 AF 100 Interface Package including: CI869, Communication Interface TP869, Baseplate, width=60mm	3BSE049110R1	
	Note! This part is exempted from the scope of 2011/65/EU (RoHS) as provided in Article 2(4)(c), (e), (f) and (j) therein (Ref.: 3BSE088609 – EU DECLARATION OF CONFORMITY - ABB Advant Master Process Control System).		

Communication

MasterBus 300

MasterBus 300		Article no.	
	CI855K01 MB 300 Interface Package including: CI855, MB300 Interface Module TP853, Base plate	3BSE018106R1	

Communication

S100 I/O Bus

S100 I/O Bus		Article no.	
	CI856K01 S100 I/O Interface Communication between AC 800M and S100 system. Package including: CI856, Communication Interface TP856, Baseplate, width = 60mm	3BSE026055R1	

Communication

Satt I/O

S100 I/O Bus		Article no.	
	For SATT 19" rack I/O and S200 I/O via ControlNet. For additional Satt 19" rack I/O components, see price list 3BSE014353 (Interface) in price book 3BSE014360. (SattLine/SattCon).		
A CONTRACTOR OF THE PROPERTY O	CI865K01 SATT I/O Interface Package including: CI865, Communication Interface TP865, Baseplate, width = 60 mm	3BSE040795R1	

Communication

INSUM

INSUM		Article no.	
A TO MINIME OF A STATE	CI857K01 INSUM Ethernet Interface Package including: CI857, Communication Interface TP853, Baseplate, width = 60 mm	3BSE018144R1	

Communication

DriveBus

DriveBus		Article no.	
	CI858K01 DriveBus Interface Package including: CI858, Communication Interface TP858, Baseplate, width = 60 mm	3BSE018135R1	

Communication

Bus Accessories

Bus Accessories		Article no.	
	TK850V007 CEX-Bus Extension Cable Length = 0.7 m Use of TK850V007 needs TK851 as CEX-bus terminator.	3BSC950192R1	
	TB850 CEX-Bus Terminator With 25-pin DB25P male connector. With screw fixing. A TB850 CEX-Bus terminator must always be installed on the last unit on the CEX bus.	3BSC950193R1	
	TB851 CEX-Bus Terminator With 25-pin DB25S female connector. With screw fixing. When Communication Interface units are mounted on adjacent DIN rails, they are connected by means of a CEX-Bus extension cable (TK850) and terminated using a TB851 CEX-Bus terminator.	3BSC950194R1	
	BC810K02 CEX-bus Interconnection Unit Including: 2 pcs BC810, Interconnection Unit 2 pcs TP857, Baseplate TK851, Interconnection Cable 2 pcs TB850, CEX-Bus Terminator	3BSE031155R1	
	BC820K02 CEX-Bus Interconnection Unit Allows AC 800M redundant PM858, PM862 or PM866(A) pair to be up to 200 m apart, cables not included. Including: 2 pcs BC820, RCU-Link and CEX-Bus Interconnection Unit 2 pcs TP850 Baseplate 2 pcs TK857 RCU-Link Cable 2 pcs TB850, CEX-Bus Terminator	3BSE071500R1	
	TK851V010 Connection Cable Length = 1.0 m. Used as: RCU Link Cable BC810 Interconnection Cable	3BSC950262R1	
	TB852 RCU Link Terminator Terminator for RCU Link	3BSC950263R1	
0	TB853 RCU Control Link Terminator Terminator for RCU Control Link	3BSE057022R1	
	TK855 RCU Data Link Cable Length = 1.0 m. Used as: RCU Data Link Cable with PM891	3BSC950356R1	
	TK856 RCU Control Link Cable Length = 1.0 m. Used as: RCU Control Link Cable	3BSE057021R1	
	TK857V003 RCU Link Cable Length = 0.3 m. Used with BC820.	3BSC950375R1	

AC 800M Power supply and Voters selection guide

Feature	SD822Z	SD831	SD832	SD833	SD834	SS822Z	SS832	SS823
Rated output current	5 A	3 A	5 A	10 A	20 A	20 A	10 A (20 A in parallell operation)	20 A
Rated output power	120 W	72 W	120 W	240 W	480 W	-	-	-
Rated output voltage	d.c. 24 V	d.c. 24 V	d.c. 24 V	d.c. 24 V	d.c. 24 V	-	-	-
Rated input power	280 VA 135 W	134/143 VA	240/283 VA	447/514 VA	547/568 VA	500 W	240 W (480 W in parallell operation)	500 W
Mains/input voltage, nominal	115/230 V a.c. 225-250 V d.c.	100-240 V a.c. 110-300 V d.c.	100-120 V a.c. 200-240 V a.c. Auto-select input	100-120 V a.c. 200-240 V a.c. Auto-select input	100-240 V a.c. 110-300 V d.c	2x24 V d.c.	2x24 V d.c (1x24 V d.c in parallell operation)	1x24 V d.c
Mains voltage variation allowed	85 - 110%	90-264 V a.c. 88-375 V d.c.	90-132 V a.c. 180-264 V a.c.	90-132 V a.c. 180-264 V a.c.	85-276 V a.c. 88-375 V d.c.	-	-	-
Mains/input voltage, max. (a.c.= 45-65 Hz)	138/275 V a.c. 375 V d.c.	264-300 V a.c.	264-300 V a.c.	264-300 V a.c.	264-300 V a.c.	60 V d.c.	60 V d.c.	60 V d.c.
Primary peak inrush current at power on	Typ 15 A	<28/<54 A	<10 A	<10 A	<13 A	-	-	-
Applications	SELV and PELV	SELV and PELV	SELV and PELV	SELV and PELV	SELV and PELV	-	-	-
Load sharing	Two in parallell	-	-	-	Parallell connection	Two in parallell	Two in parallell	Yes
Power Factor (at rated output power)		0.61/0.56	0.56/0.47	0.59/0.51	0.95/0.90	-	-	-
Heat dissipation	13.3 W	10/8 W	14/13 W	24/22 W	40/32 W	10 W at 20 A and 2,5 W at 5 A	9 W (18 W)	24 W at 20 A and 6 W at 5 A
Efficiency factor	88 %	88/89.8 %	89.4/90.2 %	91/91.6 %	92.4/93.9 %	-	-	-
Output voltage regulation at max. current	+- 2%	< 50 mV / < 100 mV	< 70 mV / < 100 mV s	< 70 mV / < 100 mV	< 10 mV / < 100 mV	0,5 V lower than input	0.85 V lower than input	1.2 V lower than input
Ripple (peak to peak)	< 50 mV	< 50 mV	< 50 mV	< 50 mV	< 100 mV	-	-	-
Secondary voltage holdup time at mains blackout	> 20 ms	29/120 ms	80/78 ms	46/47 ms	32/51 ms	-	-	-
Maximum output current (min)	10 A	3.3 A	6 A At ambient temp < 45 °C	12 A At ambient temp < 45 °C	30 A < 4 s	35 A (Overload)	25 A (Overload)	35 A (Overload)
Maximum ambient temperature	60 °C	60 °C	60 °C	60 °C	60 °C	60 °C	60 °C	55 °C
Primary: Recommended external fuse (1)	10 A	10-20 A	10-20 A	10-20 A	10-20 A	-	-	-
Secondary: Short circuit	< 10 A	< 8 A	< 14 A	< 18 A	< 40 A	-	-	-
Secondary: Over-Voltage protection	29 V	< 39 V	< 39 V	< 39 V	< 37 V	-	-	< 30 V
Class of protection	I PE (Protective	Earth) connect	ion required			-	-	-
Protection rating	IP20 according to IEC60529							

Feature	SD822Z	SD831	SD832	SD833	SD834	SS822Z	SS832	SS823
Width	65 mm (2.56 in.)	32 mm (1.26 in.)	32 mm (1.26 in.)	60 mm (2.36 in.)	82 mm (3.23 in.)	50 mm (1.97 in.)	32 mm (1.26 in.)	116 mm (4.6 in.)
Depth	110 mm (4.3 in.)	102 mm (4.02 in.)	117 mm (4.61 in.)	117 mm (4.61 in.)	127 mm (5.0 in.)	110 mm (4.3 in.)	117 mm (4.61 in.)	145 mm (5.8 in.) including connector
Height	125 mm (4.9 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	125 mm (4.9 in.)	125 mm (4.9 in.)	132 mm (5.3 in.)
Mounting spacing Width mm	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.6 in.)
Mounting spacing Height mm	25 mm (1 in.)	40 mm (1.57 in.)	40 mm (1.57 in.)	40 mm (1.57 in.)	40 mm (1.57 in.)	25 mm (1 in.)	25 mm (1 in.)	25 mm (1.2 in.)
Weight (lbs.)	620 g (1.4 lbs)	430 g (0.9 lbs.)	500 g (1.1 lbs.)	700 g (1.5 lbs.)	1200 g (2.6 lbs.)	630 g (1.4 lbs)	350 g (0.77 lbs.)	870 g (1.9 lbs.)
Corrosive atmosphere ISA-S71.04	G3	G2	G2	G2	G2	G3	G2	G3
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
El. safety, Haz loc, C1 Zone 2	No	No	No	No	No	No	No	No
El. safety, Haz loc, C1 Div 2	No	No	No	No	Yes	No	No	No
Electrical safety ⁽²⁾	IEC 61131-2,	UL 508, EN 501	78 (Note! UL 50	8 not valid for S	5823)	<i>'</i>	· ·	·
Pollution degree	Degree 2, IE	C 60664-1						
Mechanical operating conditions	EN 61131-2							
EMC	EN 61000-6	-4 and EN 61000)-6-2					
Overvoltage Categories	Over-voltage	Over-voltage Category III (IEC/EN 60664-1)						
RoHS compliance	EN 50581:20)12			'			
WEEE compliance	DIRECTIVE/	2012/19/EU						

⁽¹⁾ Microcircuit Breaker (MCB), Characteristic B
(2) For detailed information on each module, please visit: www.compacthardwareselector.com

AC 800M Processor Units

AC 800M Power supply and Voters

AC 800M Power supply		Article no.	
Interior Ann	SD822Z Power Supply, 5A, G3 Compliant Input 115/230V a.c. switch selectable, output 24V d.c., 5A. If redundant power application is required connect to SS822Z Voting Unit. Width = 65 mm. DIN rail mounted.	3BSC610054R1	
	SD831 Power Supply, 3A, G2 Compliant Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 3A. If redundant power application is required connect to SS8XX voting unit. Width = 35mm. DIN rail mounted.	3BSC610064R1	
	SD832 Power Supply, 5A, G2 Compliant Input a.c. 100-120/200-240 V. Output d.c. 24 V 5A, auto- select input. If redundant power application is required connect to SD8XX voting unit. Width = 35mm. DIN rail mounted.	3BSC610065R1	
	SD833 Power Supply, 10 A, G2 Compliant Input a.c. 100-120/200-240 V, auto-select input. Output d.c. 24 V 10A. If redundant power application is required connect to SD8XX voting unit. Width = 60mm. DIN rail mounted.	3BSC610066R1	
	SD834 Power Supply, 20 A, G2 Compliant Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 20A. If redundant power application is required connect to SS8XX voting unit. Width = 85mm. DIN rail mounted.	3BSC610067R1	
	SS822Z Power Voting Unit, G3 Compliant With dual 24V d.c 20A inputs, single 24V d.c. 20A output. Each power input supervised. Used if redundant power supply is required. For use with power supply SD822Z. Width = 50 mm. DIN rail mounted.	3BSC610055R1	
	SS832 Power Voting Unit, G2 Compliant Input d.c. 24 V. Dual 24 V to single 24 V, 2x10A. Width = 35mm. DIN rail mounted.	3BSC610068R1	
	Mains Breaker Kit for DIN Rail 115/230V 115/230V a.c. with input terminals, breaker and 3 fused (6.3A), double output terminals. Width = 102,5 mm.	3BSE022262R1	

AC 800M Processor Units

Mounting Rails

Mounting Rails		Article no.	
	Al-profile with DIN rail and Cable Duct, mounting 719 mm (28,3") DIN rail length 683 mm (26,9")	3BSE022257R1	
	Al-profile with DIN Rail and Cable Duct, mounting 592 mm (24") DIN rail length 556 mm (21,9")	3BSE022256R1	
	Al-profile with DIN Rail and Cable Duct, mounting 465 mm (19") DIN rail length 429 mm (16,9")	3BSE022255R1	

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AC 800M Processor Units

User Documentation

User Documentation		Article no.	
	AC 800M 6.0 Communication Protocols User documentation.	3BSE035982-600	
	AC 800M 6.0 OPC Server User documentation.	3BSE035983-600	
	AC 800M 6.0 Library Object Style Guide User documentation.	3BSE042835-600	
	AC 800M 6.0 PROFIBUS DP Installation User documentation.	3BDS009029-600	
	AC 800M 6.0 PROFIBUS DP Configuration User documentation.	3BDS009030-600	
	AC 800M 6.0 AC 800M DriveBus User documentation.	2PAA113566-600	
	AC 800M 6.0 Controller Hardware User documentation.	3BSE036351-600	
	AC 800M 6.0 IEC 61850 Configuration AC 800M 6.0 IEC 61850 Configuration for CI868	9ARD171385-600	
	AC 800M 6.0 ProfiNet IO Configuration User documentation.	3BDS021515-600	
	AC 800M 6.0 Ethernet/IP DN Configuration AC 800M 6.0 Ethernet/IP DeviceNet Configuration	9ARD000014-600	
	AC 800M 6.0 Ethernet/IP DN Installation AC 800M 6.0 Ethernet/IP DeviceNet Installation	9ARD000015-600	
	Advant Fieldbus 100 User Manual User documentation.	3BSE000506-600	

Compact Control Builder AC 800M 6.0

Control System Lifecycle Support Program

Control System Lifecycle Support Program



Automation Sentinel is the ABB control system lifecycle management program. An introductory trial period to the Automation Sentinel program will be included, at no additional cost, with each new ABB control system software delivery.

Please contact your designated Automation Sentinel responsible for any questions or please refer to the Automation Sentinel 3.0 product guide for detailed information on the program and on how to calculate and order Automation Sentinel subscriptions.

Control System Lifecycle Support Program

Upgrade Orders

Upgrade Orders		Article no.	
COTEMAN HIM I	Compact Control Builder AC 800M 6.0 Media This item can be ordered by users with a valid Automation Sentinel agreement for Compact Control Builder AC 800M or OPC Server for A C 800M. It includes media and documentation for Compact Control Builder AC 800M and OPC server for AC 800M. Product revision is 6.0.0-2 No license is included.	3BSE046066R60	

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Compact Control Builder AC 800M 6.0

Media and license

Compact Control Builder AC 800M		Article no.
	Compact Control Builder AC 800M 6.0 Product Box including: Licenses for one Compact Control Builder AC 800M, one OPC Server for AC 800M, and one SoftController. DVD with software for Compact Control Builder AC 800M, OPC Server for AC 800M, and SoftController. Firmware for AC 800M and its communication units. Manuals as pdf-files. A Getting Started manual. Product revision is 6.0.0-2	3BSE040360R60
	OPC Server for AC 800M 6.0 License for one OPC Server for AC 800M.	3BSE039915R60

Compact Control Builder AC 800M 6.0

User Documentation

Documentation		Article no.
	Compact Control Builder AC 800M 6.0 Getting started	3BSE041584-600
Compact Product State Compact Product State Compact Compact Product State Compact Compact State Act State Compact St	Compact Control Builder AC 800M 6.0 Configuration	3BSE040935-600
	Compact Control Builder AC 800M 6.0 Planning	3BSE044222-600
	Compact Control Builder AC 800M 6.0 Binary and Analog Handling	3BSE041488-600

S800 I/O Modules

S800 I/O is a comprehensive and modular process I/O system that communicates with parent controllers either direct connected using the Modulebus or over industry-standard field buses. Thanks to its broad connectivity it fits a wide range of process controllers from ABB and others.

By permitting installation in the field, close to sensors and actuators, \$800 I/O reduces the installation cost by reducing the cost of cabling. And thanks to features such as hot swap of modules, on-line reconfiguration and redundancy options, it contributes to keeping production – and thereby profits up.

S800 I/O features include:

- Comprehensive coverage
- Flexible configuration and installation
- Ease of set up

- Reliability and accuracy
- · HART pass-through
- Redundancy also on I/O module level
- · High accuracy time tagging
- Defined outputs at communication errors
- I/O modules with Intrinsic Safety interfaces

With its cost-effective design and just 59 mm depth installation, S800L I/O modules are the perfect choice for PLC applications. Robust mechanics, one-piece handling, easy mounting and smart connections save your time in all phases of installation. The comprehensive S800 I/O system consists of more than 40 different module types to respond to every need. Classification of corrosive protection, electrical safety, hazardous location and marine certification brings the possibility to install S800 I/O in a wide variety of applications. S800 I/O is installed with more than 30 million channels worldwide.



S800 I/O



S800 I/O



S800L I/O

Digital input	modules
	
DI810	16 channels, 2 groups of 8 channels, 24 V d.c., current sink.
DI811	16 channels, 2 groups of 8 channels, 48 V d.c., current sink.
DI814	16 channels, 2 groups of 8 channels, 24 V d.c., current source.
DI818	32 channels, 2 groups of 16 channels, 24 V d.c., current sink.
DI820	8 channels, separate returns, 110 V d.c., 120 V a.c.
DI821	8 channels, separate returns, 220 V d.c., 230 V a.c.
DI825	With time tagging, 8 channels, separate returns, 125 V d.c.
DI828	16 channels, separate returns, 110 V d.c., 120 V a.c./d.c.
DI830	With time tagging. 16 channels, 2 groups of 8 channels, 24 V d.c., current sink. Resolution: < 0.5 ms.
DI831	With time tagging. 16 channels, 2 groups of 8 channels, 48 V d.c., current sink. Resolution: < 0.5 ms.
Pulse input n	
DP820	2 channels, separate returns, 0.25 Hz - 1.5 MHz, signal voltage: 5 / 12 V d.c.
DP840	8 channels, extended diagnostics, wire-fault detection, current limited sensor supply, 0.5-20 kHz, 12/24 V d.c or NAMUR, common return.
Digital outpu	ut modules
DO810	16 channels, 2 groups of 8 channels, 24 V d.c., max 0.5 A d.c., transistor, current source, short-circuit-proof.
DO814	16 channels, 2 groups of 8 channels, 24 V d.c., max 0.5 A, transistor, current sink, short-circuit-proof.
DO815	8 channels, 2 groups of 4 channels, 24 V d.c., max 2 A, transistor, current source, short-circuit-proof, wire-fault detection.
DO818	32 channels, 2 groups of 16 channels, 24 V, max 0.5 A d.c., transistor, current source, short-circuit-proof
DO820	8 channels, separate returns, 5-250 V, max 3 A a.c./d.c., relay (N.O.).
DO821	8 channels, separate returns, 5-250 V, max 3 A a.c./d.c., relay (N.C.).
DO828	16 channels, separate returns, 5-250V a.c. / 5-125V d.c. max 2A a.c./d.c., relay (N.O.).
Analog input	modules
AI810	8 channels, single-ended, 0(4)-20 mA, 0(2)-10 V, 12 bits.
AI815	8 channels with HART. 0(4)20 mA, 0(1)5 V, 12 bit, single ended, current limited transmitter supply.
A1820	Differential inputs, 4 channels, 0(1)-5 V, ±0(2)-10 V, ±0(4)-20 mA, 14 bits + sign.
AI825	Individually galvanically isolated channels, 4 channels, ±0(2)-10 V, ±0(4)-20 mA, 14 bits + sign.
AI830A	RTD inputs, 8 channels, Pt100, Ni100, Ni120, Cu10, resistor 0-400 ohms, 14 bits, 3-wire.
AI835A	TC inputs, 8 channels, (7+ ref. junction), separate returns. TC types B, C, D, E, J, K, L, N, R, S, T, U, -3075 mV, 15 bits.
Analog outp	ut modules
4O810V2	8 channels, common return, 0(4)-20 mA, 14 bits, load: 850 ohms (short-circuit-proof).
AO815	8 channels with HART. 420 mA, 12 bit, load: 750 ohms, common return, short-circuit-proof.
AO820	4 channels, individually galvanically isolated, separate returns, measuring range: $\pm 0(2)$ -10 V, $\pm 0(4)$ -20 mA, resolution: 12 bits + sign, load: 500 ohms (current) / 5 kohms (voltage), short-circuit-proof.
Intrinsic-saf	ety modules
01890	8 channels, separate returns, proximity sensors (NAMUR) or voltage-free contact., current sink, wire-fault detection.
DO890	4 channels, separate returns, load 150-5000 ohms, 11 V @ 40 mA, current source, wire-fault detection, short circuit-proof.
AI890	8 channels, single-ended, 0(4)-20 mA, 12 bits, transmitter power supply.
A1893	8 channels, TC: 7 + ref. junction, sep. returns. TC types B, C, E, J, K, L, N, R, S, T, U, -1080 mV. RTD: Pt50-1000, Ni100-500, Cu10-100, resistor 0-4000 W, 3-wire. 15 bits + sign.
AI895	8 channels, single-ended, 4-20 mA, 12 bits, transmitter power supply, HART pass-through.
AO890	8 channels, common return, 0(4)-20 mA, 12 bits, load: 725 ohms short-circuit-proof.
AO895	8 channels, common return, 4-20 mA, 12 bits, load: 725 ohms short-circuit-proof, HART pass-through.
	nodules
Redundant n	16 channels, common return, 24 V d.c., current sink, extended diagnostics, time-tagging, current limited sensor supply.
Redundant n DI840	16 channels, common return, 24 V d.c., current sink, extended diagnostics, time-tagging, current limited sensor supply. 8 channels, common return, 0.5-20 kHz, 12/24 V d.c or NAMUR, extended diagnostics, wire-fault detection.
Redundant n DI840 DP840	7 7 7 7 33 37 113
Redundant n DI840 DP840 DO840	8 channels, common return, 0.5-20 kHz, 12/24 V d.c or NAMUR, extended diagnostics, wire-fault detection.
Redundant n D1840 DP840 DO840 A1843 A1845	8 channels, common return, 0.5-20 kHz, 12/24 V d.c or NAMUR, extended diagnostics, wire-fault detection. 16 channels, common return, 24 V d.c., max. 0,5 A, transistor, current source, short-circuit-proof, extended diagnostics.

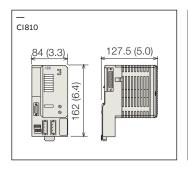
S800L I/O Modules

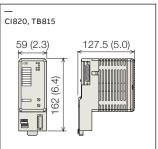
S800L mod	S800L modules				
DI801	16 channels, 1 group, 24 V d.c., current sink.				
DI802	8 channels, 110 V d.c., 150 V a.c.				
DI803	8 channels, 220 V d.c., 230 V a.c.				
DO801	16 channels, common return, 24 V, max 0.5 A d.c., transistor, current source, short-circuit-proof.				
DO802	8 channels, 5-250 V, max 2 A a.c./d.c., relay (N.O.).				
AI801	8 channels, single-ended, 0(4)-20 mA, 12 bits.				
AO801	8 channels, common return, 0(4)-20 mA, 12 bits, load: less than 750 ohms.				
Accessorie	s				
TU805K01	For DI801 & DO801. With field power distribution screw terminals. For two or three wire connection.				

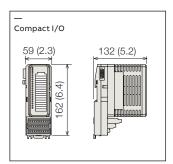
Environmental Data for \$800 I/O	
Climatic Operating Conditions	+5 to +55 °C (Storage -40 to +70 °C, RH = 5 to 95 % no condensation, IEC/EN 61131-2
Protection class	IP20 according to EN 60529, IEC 529
Corrosive protection	G3 compliant according to ISA-71.04
Electromagnetic Compatibility and CE-mark	Meets EMC directive 2004/108/EC according to EN 61000-6-2 and EN 61000-6-4
Electromagnetic Emission	Tested according to EN 61000-6-4 EMC – Generic Emission Standard, Part 2 – Industrial Environment
Electromagnetic Immunity	Tested according to EN 61000-6-2 EMC – Generic Immunity Standard, Part 2 – Industrial Environment
Electrical Safety ×	UL508, IEC/EN 61131-2
Hazardous Classified Locations *	C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2
RoHS compliance	EN 50581:2012
WEEE compliance	DIRECTIVE/2012/19/EU

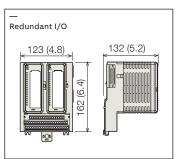
 $^{^{\}text{x})}$ For detailed information on each module, please visit: www.compacthardwareselector.com

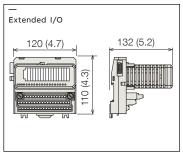
Measurements

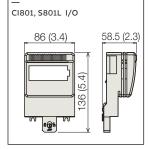


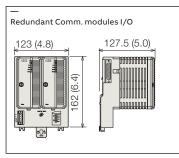














Dimensions in mm (in.)

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S800 I/O modules selection guide

	puts	>	>	> 0	> 0	lay	nipolar	polar	Temperature RTD	Temperature T/C			safety	ŧ
	NAMUR inputs	Binary 24 V	Binary 48 V	Binary 110 V	Binary 230 V	Binary Relay	Analog Unipolar	Analog Bipolar	emperat	emperat	SOE	HART	Intrinsic safety	Redundant
I/O Features S800	Z	- ш				<u>ш</u>	⋖	< −	-	-	v		=	~
Digital input modules														
DI810		•												
DI811		_	•											
DI814		•	-											
DI818		•												
DI820				•										
DI821					•									
DI825				•							•			
DI828				•										
DI830		•									•			
DI831			•								•			
DI840		•									•			•
D1890	•												•	
Digital output modules														
DO810		•												
DO814		•												
DO815		•												
DO818		•												
DO820						•								
DO821						•								
DO828						•								
DO840		•				-								•
DO890													•	
Pulse input modules														
DP820		•												
DP840	•	•												•
Analog input modules														
AI810							•							
AI815							•					•		
AI820								•						
AI825								•						
AI830A									•					
AI835A										•				
AI843										•				•
AI845							•					•		•
AI890							•						•	
AI893									•	•			•	
AI895							•					•	•	
Analog output modules														
AO810V2							•							
AO815							•					•		
AO820	İ			İ				•						
AO845A			İ	İ			•					•		•
AO890	İ			İ			•						•	
AO895			İ				•					•	•	
S800L modules														
DI801		•												
DI802				•										
DI803					•									
DO801		•												
DO802						•								
AI801							•							
AO801							•							

Communication interfaces

Feature	CI801	C1840A
Article number	3BSE022366R1	3BSE041882R1
Function	PROFIBUS-DPV1 fieldbus communication interface. Supervisory functions of I/O ModuleBus. Isolated power supply to I/O modules. OSP handling and configuration. Input power fused. Hot Configuration In Run. HART pass-through.	PROFIBUS-DPV1 fieldbus communication interface. Supervisory functions of I/O ModuleBus. Isolated power supply to I/O modules. OSP handling and configuration. Input power fused. Power supply supervision. Hot Configuration In Run. HART pass-through.
Redundant	No	Yes
Power Input	24 V d.c. (19.2 - 30)	24 V d.c. (19.2 - 30)
Power Input Fuse	2 AF	2 AF
Power Consumption at 24 V d.c.	140 mA	190 mA
Power Supply Monitoring	N/A	Max. input voltage: 30 V Min. input voltage for high level: 15 V Max. input voltage for low level: 8 V
Power Dissipation	5.4 W	7.7 W
Maximum Ambient Temperature	55°C (131°F) Horizontal mounted 40°C (104°F) Vertical mounted	55°C (131°F) Horizontal mounted 40°C (104°F) Vertical mounted
Electrical ModuleBus	Maximum of 12 I/O modules	Maximum of 12 single I/O modules or 6 pairs of redundant I/O modules
Optical ModuleBus	Maximum of 7 I/O clusters via TB842	Maximum of 7 I/O clusters via TB842
Max optical cable length	N/A	N/A
Power Output - ModuleBus	24 V max. = 1.5 A fused (1) 5 V max. = 1.5 A current lim.	24 V max. = 1.5 A fused 5 V max. = 1.5 A current lim.
Module termination units	N/A	TU846 or TU847
MTU Keying code	N/A	AA
Dielectric test voltage	500 V a.c.	500 V a.c.
Rated insulation voltage	50 V	50 V
Width	85.8 mm (3.38 in.)	54 mm (2.13 in.)
Depth	58.5 mm (2.30 in.)	96 mm (3.78 in.)
Height	136 mm (5.35 in.)	119 mm (4.69 in.)
Weight	300 g (0.66 lbs.)	200 g (0.44 lbs.)
Climatic operating conditions	0 to +55 °C (Storage -25 to +70 °C), RH=5 to 95 % no cond	densation, IEC/EN 61131-2 (2)
Certificates and standards ⁽³⁾	CE mark: Yes Electrical safety: IEC 61131-2, UL 508 Hazardous Location: C1 Div 2 cULus, C1 Zone 2 cULus, A7 Marine certification: ABS, BV, DNV-GL, LR, RS, CCS Corrosive atmosphere ISA-571.04: G3 Pollution degree: Degree 2, IEC 60664-1 Mechanical operating conditions: IEC/EN 61131-2 EMC: EN 61000-6-4 and EN 61000-6-2 Overvoltage categories: IEC/EN 60664-1, EN 50178 Equipment class: Class I according to IEC 61140; (Earth p. RoHS compliance: EN 50581:2012 WEEE compliance: DIRECTIVE/2012/19/EU	

⁽¹⁾ Fuse type: Subminiature fuse 3.15 A. LT-5 Fast-Acting 622 series according to Littelfuse ,TR5-F Fuse-link No. 370 according to Wickmann, MSF 250 according to Schurter

^{(2) 0 +40 °}C compact MTUs on vertical DIN-rail. Approvals are issued for +5 to +55 °C.
(3) For detailed information on each module, please visit: www.compacthardwareselector.com

Extended warranty for \$800 I/O Hardware

Extended warranty for S800 I/O Hardware

We can offer an extended warranty for one, two, or three years in addition to normal warranty conditions for S800 I/O Hardware. See price list Extended Warranty Time 3BSE049908.

S800 I/O

ISA-S71.04 level G3 Compliance

ISA-S71.04 level G3 Compliance

 $Modules\ are\ compliant\ to\ ISA-S71.04\ level\ G3,\ unless\ explicitly\ stated\ differently.$

Communication

Field Communication Interface

Field Communication Interface		Article no.
	CI801 ProfiBus FCI S800 Communication Including: • 1 pce Power Supply Connector • 1 pce TB807 Modulebus Terminator The basic system software loaded in CI801 does not support the following I/O modules: DI825, DI830, DI831, DI885, AI880A, DI880 and DO880.	3BSE022366R1
ASS	CI801 Engineering kit SW 1.3 Including: 1 pce CD with GSD file, Memory Maps and Release Note. 1 pce Reference Manual Memory Maps for CI801.	3BSE038540R1300
	CI840A Profibus DP-V1 Interface For redundant communication interface two CI840A, and one TU847 or one TU846 must be ordered.	3BSE041882R1
1.1	C1840 Engineering kit SW 4.0 Including: 1 CD with GSD file, Memory Maps and Release Notes. 1 Reference Manual, Memory Maps for C1840.	3BSE031694R4000
	TU846 MTU for CI840 For 1+1 CI840 Supporting redundant I/O. Vertical mounting of modules. Including: 1 pcs Power Supply Connector 2 pcs TB807 Modulebus Terminator	3BSE022460R1
	TU847 MTU for CI840 For 1+1 CI840 Supporting non-redundant I/O. Vertical mounting of modules. Supporting non-redundant I/O. Including: 1 pcs Power Supply Connector 1 pcs TB807 Modulebus Terminator	3BSE022462R1

Communication

Field Communication Interface

Field Communication Interface		Article no.	
	Extra, Front label set FCI Sheet with 12 labels. For TB820	3BSC970089R1	
	Extra, Label set, item design. FCI Sheet with 40 labels. For TB820	3BSC970091R1	
	Mounting kit, vertical CI801/CI840/TN840 For vertical mounting of CI801, CI840, and TB840 on a vertical DIN rail.	3BSE040749R1	
	Mounting profile kit DIN rails and duct DIN rail length: 1650 mm + 210mm (65") + (8.3")	3BSE049768R1	
	Al-profile with DIN Rail, Cable Duct, 19" Mounting 465 mm (19") DIN rail length 429 mm (16,9")	3BSE022255R1	
	Al-profile with DIN Rail, Cable Duct, 24" Mounting 592 mm (24") DIN rail length 556 mm (21,9")	3BSE022256R1	

Communication

Upgrade Kit and Tool Cables

Upgrade Kit and Tool Cables		Article no.
	Upgrading of CI801, CI840A to latest software version are available for download from ABB Library/Solutions Bank. Item TK212A is cable connecting a PC to CI840 for download of software. CI801 requires items TK212A and FS801K01 for download of software.	
	TK212A Tool cable RJ45 8P8C plug RJ45 (male) to D-sub 9 (female), length 3 m. RJ45 8P8C plug (with shell). Cable: UL2464 26 AWG x 8C.	3BSC630197R1
	FS801K01 Service adapter kit Including: 1 pcs Service adapter FS801 1 pcs cable TK802 For connection of CI801 to PC. A cable TK212A is also needed.	3BSE038407R1

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S800 I/O

Analog Input Modules		Article no.
	Al810 Analog input 8 ch. 0(4)20mA, 010V, 12Bit, single ended. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU835, TU838, TU850.	3BSE008516R1
	Al815 Analog Input HART 8 ch. 0(4)20mA, 0(1)5V, 12bit, single ended. Current limited transmitter power distribution. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU835, TU838.	3BSE052604R1
	Al820 Analog input 4 ch. +-20mA, 0(4)20mA, +-10V, +-5V, 0(1)5V, diff., 50V CMV,. Rin(curr)250 Ohms, 14bit + sign. Individually galvanic isolated channels. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE008544R1
	Al825 Analog Input 4 ch2020mA, -1010V, 14bit + sign. Individually galvanic isolated channels. Use Module Termination Unit TU811, TU813, TU831.	3BSE036456R1
	Al830A Analog input RTD 8 ch. Pt100, Ni100/120, Cu10, R. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE040662R1
	Al835A Thermocouple/mV Input 8 ch. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833.	3BSE051306R1
	Al843 Termocouple/mV Input S/R 8 ch. Single or redundant. 16bit. Use Module Termination Unit TU818, TU830, TU833, TU842, TU843, TU852.	3BSE028925R1
	Al845 Analog Input S/R HART 8 ch. 0(4)20mA, 0(1)5V, 12bit, single ended. Current limited transmitter power distribution. Advanced on-board diagnostics. HART support. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU835, TU838, TU844, TU845, TU854.	3BSE023675R1
	Al890 Analog Input IS 8 ch. 0 (4)20mA single ended. Intrinsic Safety Interface. Use Module Termination Unit TU890 or TU891.	3BSC690071R1
	Al893 Analog Input TC/RTD IS 8 ch. For TC and RTD sensors. Intrinsic Safety Interface. Use Module Termination Unit TU890 or TU891.	3BSC690141R1
	Al895 Analog Input IS HART 8 ch. 420mA single ended. Intrinsic Safety Interface and HART. Use Module Termination Unit TU890 or TU891.	3BSC690086R1

Analog Output Modules		Article no.	
	AO810V2 Analog Output 8 ch. 0(4)20mA, 14bit RLmax 500/850 Ohms. Use module Termination Unit TU810, TU812, TU814, TU830 or TU833.	3BSE038415R1	
	AO815 Analog Output HART 8 ch. 1x8 ch. 420mA, 12bit, RLmax 750 ohm. Use Module Termination Unit TU810, TU812, TU814, TU830 or TU833.	3BSE052605R1	
	AO820 Analog Output 4 ch. +-20mA, 0(4)20mA, +-10V, 12bit+sign. Individually galvanic isol. channels. RL max 500 Ohms. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE008546R1	
	AO845A Analog Output S/R HART 8 ch. (0) 420mA, 12bit, RLmax 750 ohm. Single or redundant. Loop supervised DI function. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU842, TU843, TU852.	3BSE045584R1	
	AO890 Analog Output IS 8 ch. 0 (4)20mA. RL max 750 ohm.Intrinsic Safety Interface. Use Module Termination Unit TU890 or TU891.	3BSC690072R1	
	AO895 Analog Output IS HART 8 ch. 0(4)20mA. RL max 750 ohm. Intrinsic Safety Interface and HART. Use Module Termination Unit TU890 or TU891.	3BSC690087R1	

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S800 I/O

Digital Input Modules		Article no.
	DI810 Digital Input 24V 16 ch. Isoltated in two groups of 8 channels. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU850.	3BSE008508R1
	DI811 Digital input 48V 16 ch. Isolated in two groups of 8 channels. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU850.	3BSE008552R1
	DI814 Digital Input 24V Current 16 ch. Isolated in two groups of 8 channels. Current sourcing. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU838.	3BUR001454R1
	DI818 Digital Input 24V 32 ch. Isolated in two groups of 16 channels. Use Module Termination Unit TU818, TU819, TU830.	3BSE069052R1
	DI820 Digital Input 120V a.c. 8 ch. Individually galvanic isolated channels. Use Module Termination Unit TU811, TU813, TU831, TU839, TU851.	3BSE008512R1
	DI821 Digital Input 230V 8 ch. Individually galvanic isolated channels. Use Module Termination Unit TU811, TU813, TU831, TU839, TU851.	3BSE008550R1
	DI825 Digital Input 125V SOE 8 ch. Individually Isolated channels. Use Module Termination Unit TU811, TU813, TU831.	3BSE036373R1
	DI828 Digital Input, 120V 16 ch. Individually galvanic isolated channels. Use Module Termination Unit TU851.	3BSE069054R1
	DI830 Digital Input 24V SOE 16 ch. Isolated in two groups of 8 channels. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU850.	3BSE013210R1
	DI831 Digital Input 48V SOE 16 ch. Isolated in two groups of 8 channels. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU850.	3BSE013212R1
	DI840 Digital Input 24V S/R 16 ch. Single or redundant. Advanced On-Board diagnostics. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU838, TU842, TU843, TU852.	3BSE020836R1
	DI890 Digital Input IS 8 ch. Intrinsic Safety Interface. Individually galvanic isolated. Use Module Termination Unit TU890 or TU891.	3BSC690073R1

Digital Output Modules		Article no.
	DO810 Digital Output 24 V 16 ch. Isolated in two groups of 8 channels. 0.5A, Short circuit proof. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE008510R1
	DO814 Digital Output Current 16 ch. Isolated in two groups of 8 channels. 0,5A, shortcut circuit proof. Current sinking. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU838.	3BUR001455R1
	DO815 Digital Output 24V 8 ch. Isolated in two groups of 4 channels. 2.0A short circuit proof. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE013258R1
	DO818 Digital Output 24V 32 ch. Isolated in two groups of 16 channels. 0.5A, Short circuit proof. Use Module Termination Unit TU818, TU819, TU830.	3BSE069053R1
	DO820 Digital Output Relay 8 ch. 24-230V a.c/d.c. 3A, cos phi>0.4, d.c. 42W. Individually galvanic isolated channels. Use Module Termination Unit TU811, TU813, TU831, TU836, TU837, TU851.	3BSE008514R1
	DO821 Digital Output Relay 8 ch. 24-230V a.c./d.c 3A, cos phi>0.4, d.c. 42W, normal closed. Individually galvanic isolated channels. Use Module Termination Unit TU811, TU813, TU831, TU836, TU837, TU851.	3BSE013250R1
	DO828 Digital Output 16 ch. Individually galvanic isolated channels. 5-250V a.c and 5-125V d.c, max 2A. Use Module Termination Unit TU851.	3BSE069055R1
	DO840 Digital Output 24V S/R 16 ch. solated in two groups of 8 channels. Single or redundant. 0.5A. Advanced On-board diagnostics. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU842, TU843, TU852.	3BSE020838R1
	DO890 Digital Output IS 4 ch. Intrinsic Safety Interface. Individually galvanic isolated channels. Use Module Termination Unit TU890 or TU891.	3BSC690074R1

Pulse Counting Modules

Pulse Counting Modules		Article no.
	DP820 Pulse Counter RS-422 2 ch bidirectional pulse counters and frequency measurement, current, 5V, (12v), 24V. 1,5MHz Rated isol 50V Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	3BSE013228R1
Towards	DP840 Pulse Counter S/R 8 ch. Pulse Counter or Frequency Measurement Module. Redundant or single. 0.5Hz - 20kHz. Use Module Termination Unit TU810, TU812, TU814, TU818, TU830, TU833, TU842, TU843, TU844, TU845, TU852, TU854.	3BSE028926R1

S800 I/O

Label sets for I/O Modules

el sets for I/O Modules		Article no.	
	Transparent film fronts Set of 12 transparent plastic film fronts. To be used with ordinary paper quality.	3BSE072159R1	
and the same	White colored plastic coated paper One sheet of size A4. Original paper quality. No need to use transparent films.	3BSE072160R1	

Communication interfaces - TB and TUs

Feature	TB820V2	TB825	TB826	TB840A	TB842
Article number	3BSE013208R1	3BSE036634R1	3BSE061637R1	3BSE037760R1	3BSE022464R1
Function	2 fiber optic ports to optical ModuleBus ModuleBus (electrical) to the I/O Modules Supervisory functions of I/O ModuleBus and power supply Isolated power supply to I/O modules Input power fused.	ModuleBus optical media converter from plastic or HCS fibre with versatile link connector to glass fibre with ST connector. Allows distribution of the optical ModuleBus up to 1000 m per cluster in star configurations.	ModuleBus optical media converter from plastic or HCS fibre with versatile link connector to glass fibre with SC connector. Allows distribution of the optical ModuleBus up to 5000 m per cluster in star configurations.	2 fiber optic ports to optical ModuleBus ModuleBus (electrical) to the I/O Modules Supervisory functions of I/O ModuleBus and power supply Isolated power supply to I/O modules Input power fused.	Communication interface between the CI801 or CI840/CI840A FCI and the TB820/TB820V2/TB840/ TB840A ModuleBus Modem of an I/O cluster or ABB drives units via the Optical ModuleBus. TB842 connects to CI801 via TB806 and to CI840/CI840A via TU847 and TB806 for single I/O or via TU846 and TB846 for redundant I/O.
Redundant	No	No	No	Yes	Yes
Power Input	24 V d.c. (19.2 - 30)	24 V d.c. (19.2 - 30)	24 V d.c. (19.2 - 30)	24 V d.c. (19.2 - 30)	N/A
Power Input Fuse	2 AF	2 AF	2 AF	2 AF	
Power Consumption at 24 V d.c.	100 mA	96 mA	96 mA	120 mA	20 mA
Power Supply Monitoring	Max. input voltage: 30 V Min. input voltage for high level: 15 V Max. input voltage for low level: 8 V	N/A	N/A	Max. input voltage: 30 V Min. input voltage for high level: 15 V Max. input voltage for low level: 8 V	N/A
Power Dissipation	6 W	2.3 W	2.3 W	6 W	0.5 W
Maximum Ambient Temperature	55°C (131°F) Horizontal mounted 40°C (104°F) Vertical mounted	55°C (131°F) Horizontal mounted 40°C (104°F) Vertical mounted	55°C (131°F) Horizontal mounted 40°C (104°F) Vertical mounted	55°C (131°F) Horizontal mounted 40°C (104°F) Vertical mounted	55° C (131° F) horizontal mounted. 40° C (104° F) vertical mounted
Electrical ModuleBus	Maximum of 12 I/O modules	N/A	N/A	Maximum of 12 single I/O modules or 6 pairs of redundant I/O modules	N/A
Optical ModuleBus	Maximum of 7 I/O clusters, Wavelength 650 nm	Local optical ModuleBus 1 and 2 with versatile link contacts, plastic or HCS. Field optical ModuleBus with ST bayonet contacts.	Local optical ModuleBus 1 and 2 with versatile link contacts, plastic or HCS. Field optical ModuleBus with SC contacts.	Maximum of 7 I/O clusters, Wavelength 650 nm.	Fiber optic interface, one transmit and one receive connection for max. 10 Mbit/s. Wavelength 650 nm
Max optical cable length	Local cable: Plastic Optical Fiber (POF): Max 15 m. Hard Clad Silica (HCS): Max 200 m.	Local cable: Plastic Optical Fiber (POF): Max 15 m. Hard Clad Silica (HCS): Max 200 m. Field cable: Glass Optical fiber, multimode, 62.5/125 µm: Max 1 000 m. Glass Optical fiber, multimode, 50/125 µm: Max 1000 m.	Local cable: Plastic Optical Fiber (POF): Max 15 m. Hard Clad Silica (HCS): Max 200 m. Field cable: Glass Optical fiber, single mode, 9/125 µm: Max 5 000 m.	Local cable: Plastic Optical Fiber (POF): Max 15 m. Hard Clad Silica (HCS): Max 200 m.	The module is equipped with Transmitter/Receiver for up to 10 Mbit/s. Both plastic and HCS (Hard Clad Silica) optic fiber with connectors (Agilent's, former Hewlett-Packard, Versatile Link) can be used with the TB842.
Power Output - ModuleBus	24 V max. = 1.4 A 5 V max. = 1.5 A	N/A	N/A	24 V max. = 1.4 A 5 V max. = 1.5 A	
Module termination units	N/A	N/A	N/A	TU807, TU840, TU841, TU847, TU848 or TU849	TB806, TU846 and TU847
MTU Keying code	N/A	N/A	N/A	АВ	N/A
Dielectric test voltage	500 V a.c.	500 V a.c.	500 V a.c.	500 V a.c.	N/A
Rated insulation voltage	50 V	50 V	50 V	50 V	N/A

Feature	TB820V2	TB825	TB826	TB840A	TB842
Width	58 mm (2.39 in.)	85.6 mm (3.37 in.)	85.6 mm (3.37 in.)	54 mm (2.13 in.)	17.6 mm (0.69 in.)
Depth	122 mm (4.8 in.)	58.5 mm (2.30 in.)	58.5 mm (2.30 in.)	96 mm (3.78 in.)	42.3 mm (1.67 in.)
Height	170 mm (6.7 in.)	136 mm (5.35 in.)	136 mm (5.35 in.)	119 mm (4.69 in.)	56.7 mm (2.23 in.)
Weight	300 g (0.66 lbs.)	210 g (0.46 lbs.)	210 g (0.46 lbs.)	200 g (0.44 lbs.)	90g (0.20 lbs.)
Climatic operating conditions	0 to +55 °C (Storage -25 to +70 °C), RH=5 to 95 % no condensation, IEC/EN 61131-2 ⁽²⁾				
Certificates and standards ⁽³⁾	Marine certification: Corrosive atmosphei Pollution degree: De Mechanical operatin EMC: EN 61000-6-4 a Overvoltage categor Equipment class: Cla RoHS compliance: EN	C1 Div 2 cULus, C1 Zone ABS, BV, DNV-GL, LR, RS, e ISA-S71.04: G3 gree 2, IEC 60664-1 g conditions: IEC/EN 6113 and EN 61000-6-2 ies: IEC/EN 60664-1, EN 5 ss I according to IEC 6114	CCS ^(*) 81-2 60178		

Feature	TU807	TU840	TU841	TU846	TU847	TU848	TU849
Article number	3BSE039025R1	3BSE020846R1	3BSE020848R11	3BSE022460R1	3BSE022462R1	3BSE042558R1	3BSE042560R1
Function	unit having connections for power supply, a single electrical ModuleBus, one TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.	(MTU) for redundant configuration of Optical ModuleBus Modem TB840/ TB840A. The MTU is a passive unit having connections for power supply, redundant electrical ModuleBus, two TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.	with non-redundant I/O. The MTU is a passive unit having connections for power supply, a single electrical ModuleBus, two TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.	Module termination unit (MTU) for redundant configuration of the field communica-tion interface CI840/ CI840A and redundant I/O. The MTU is a passive unit having connections for power supply, redundant electrical ModuleBus, two CI840/CI840A and two rotary switches for station address (0 to 99) settings.	station address (0 to 99) settings. A ModuleBus Optical Port TB842 can be connected to TU847 via TB806.	electrical ModuleBus, two TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.	Module termination unit (MTU) for redundant configuration of Optical ModuleBus Modem TB840/ TB840A. The MTU is a passive unit having connections for two power supply, one for each modem, a single electrical ModuleBus, two TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.
Cable redundancy	No	No	No	No	No	Yes	Yes
Module redundancy	No	Yes	Yes	Yes	Yes	Yes	Yes
Туре	Single TB, Single I/O, Single Power		Redundant TB840/TB840A, Single I/O, Single Power	Redundant CI840/CI840A, Redundant I/O	Redundant CI840/ CI840A, Single I/O		Redundant TB840/TB840A, Single I/O, Dual Power
Power Input	24 V d.c. (19.2 - 30 V)	24 V d.c. (19.2 -30 V)	24 V d.c. (19.2 - 30 V)	24 V d.c. (19.2 - 30 V)	24 V d.c. (19.2 - 30 V)	24 V d.c. (19.2 -30 V)	24 V d.c. (19.2 -30 V)
Hot Swap	No	No	No	No	No	No	No
Mounting	Vertical or Horizo	ntal					
Power Consumption at 24 V d.c.	N/A	N/A	N/A	N/A	N/A	N/A	N/A

^{(2) 0 +40 °}C compact MTUs on vertical DIN-rail. Approvals are issued for +5 to +55 °C. (3) For detailed information on each module, please visit: www.compacthardwareselector.com (*) No Marine cert. for TB826

Feature	TU807	TU840	TU841	TU846	TU847	TU848	TU849
Connector	N/A	N/A	N/A	PROFIBUS: DSUB9 connector Service ports: RJ45 connector	PROFIBUS: DSUB9 connector Service ports: RJ45 connector	N/A	N/A
Acceptable wire sizes	Solid: 0.2 - 2.5 mm² Stranded: 0.2 - 2.5 mm², 24 - 12 AWG Recommended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm ² Stranded: 0.2 -2.5 mm ² , 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm ² Stranded: 0.2 -2.5 mm ² , 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm ² Stranded: 0.2 -2.5 mm ² , 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm ² Stranded: 0.2 -2.5 mm ² , 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm ² Stranded: 0.2 -2.5 mm ² , 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm² Stranded: 0.2 -2.5 mm², 24 -12 AWG Recomended torque: 0.5 Nm
Dielectric test voltage	500 V a.c.	500 V a.c	500 V a.c				
Rated insulation voltage	50 V	50 V	50 V	50 V	50 V	50 V	50 V
Power Dissipation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width	59 mm (1.57 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)
Depth	47 mm (1.85 in.)	47 mm (1.85 in.)	47 mm (1.85 in.)	47 mm (1.85 in.)	47 mm (1.85 in.)	47 mm (1.85 in.)	47 mm (1.85 in.)
Height	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)
Weight	450 g (0.99 lbs.)	450 g (0.99 lbs.)	450 g (0.99 lbs.)	500 g (1.1 lbs.)	500 g (1.1 lbs.)	450 g (0.99 lbs.)	450 g (0.99 lbs.)
Climatic operating conditions	0 to +55 °C (Sto	rage -25 to +70 °C	i), RH=5 to 95 % n	o condensation, I	EC/EN 61131-2 (2)		
Certificates and	standards (3)						
Equipment class	Class I according to IEC 60536; (earth protected)	Class 1 according to IEC 60536; (earth protected)	Class 1 according to IEC 60536; (earth protected)	Class 1 according to IEC 60536; (earth protected)	Class 1 according to IEC 60536; (earth protected)	Class 1 according to IEC 60536; (earth protected)	Class 1 according to IEC 60536; (earth protected)
Protection rating	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529
CE - marking	Yes						
Electrical Safety	cULus	cULus	cULus	cULus	cULus	cULus	cULus
Hazardous location	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2
Marine certificates	N/A	ABS, BV, DNV-GL, LR, RS	ABS, BV, DNV-GL, LR, RS, CCS	N/A	ABS, BV, DNV-GL, LR, RS, CCS	ABS, BV, DNV-GL, LR, RS	ABS, BV, DNV-GL, LR, RS
RoHS compliance	EN 50581:2012	J.	ı	ı	J.	J.	
WEEE compliance	DIRECTIVE/2012/	19/EU					

⁽³⁾ For detailed information on each module, please visit: www.compacthardwareselector.com

Module Termination Units

odule Termination Units		Article no.
	TU805K01 Termination Units 2- or 3-wire Includes 10 pcs of Termination Unit TU805 for DI801 and DO801.	3BSE035990R1
	TU810V1 Compact MTU, 50V. Compact Module Termination Unit 2x8 signal terminals.	3BSE013230R1
	TU811V1 Compact MTU 250V. Compact Module Termination Unit 1x8 signal terminals.	3BSE013231R1
	TU812V1 Compact MTU, 50V, D-sub. Compact Module Termination Unit with 25 pin D-sub connector, rated isol. 50V. D-sub (female) connector is not enclosed.	3BSE013232R1
	TU813 Compact MTU, 250V. Crimped snap-in connectors.	3BSE036714R1
	TU814V1 Compact MTU, 50V, snap-in con. Compact Module Termination Unit 2x8 Signal terminals for crimped snap-in connectors. Detachable (pluggable) connectors are enclosed.	3BSE013233R1
	TU818 Compact MTU, 50V. Compact Module Terminatin Unit with 1x32 (and 2x16) signal terminals.	3BSE069209R1
	TU819 Compact MTU, 50V. Compact Module Termination Unit with 2x25 pin D-sub connector, D-sub (female) connector is not enclosed.	3BSE068891R1
n in	TU830V1 Extended MTU, 50V. Extended Module Termination Unit 2x16 signal terminals.	3BSE013234R1
	TU831V1 Extended MTU, 250V. Extended Module Termination Unit 2x8 signal terminals.	3BSE013235R1
100	TU833 Extended MTU, 50V. 2x16 signal terminals, Spring-cage terminals.	3BSE038726R1
	TU835V1 Extended MTU, 50V, Fused. Extended Module TErmination Unit. 8 fused power outlets, 8 signal terminals.	3BSE013236R1
	TU836V1 Extended MTU, 250V, Fused. Extended Module Termination Unit 2x4 fused signals, 2x4 return terminals, 2x2 L 2x2N terminals.	3BSE013237R1
17.1007	TU837V1 Extended MTU, 250V, Fused. Extended Module Termination Unit 8x1 fused isol. signals, 8x1 L terminals, 2x6 N terminals.	3BSE013238R1
	TU838 Extended MTU, 50V. Extended Module Termination Unit 2x4 fused transducer power outlets, 16 signal terminals, 2x4 return terminals, 2x2 L+, 2x2 L- terminals. Module is mounted horizontally.	3BSE008572R1
	TU839 Extended MTU, 250V. Extended Module Termination Unit, 2x8 signal terminals 2x4 fused sensor power.	3BSE046966R1
And Barre	TU842 Redundant MTU, 50V. Used with redundant I/O. Horizontal DIN rail mounting.	3BSE020850R1
- CC-1	TU843 Redundant MTU, 50V. Used with redundant I/O. Vertical DIN rail mounting.	3BSE021443R1

S800 I/O and S800L I/O

Module Termination Units

ule Termination Units		Article no.
700	TU844 Redundant MTU, 50V. Used with redundant I/O. Horizontal DIN rail mounting. Shunt Sticks not included.	3BSE021445R1
F- 1004	TU845 Redundant MTU, 50V. Used with redundant I/O. Vertical DIN rail mounting. Shunt Sticks not included.	3BSE021447R1
	TU850 Extended MTU, 50V. 2x8 signal terminals and 2x8 disconnetable current limited sensor/transmitter outlet power terminals.	3BSE050930R1
	TU851 Extended MTU, 250V. Extended Module Termination Unit with 2x16 signal terminals.	3BSE068782R1
	TU852 MTU, Redundant, 50V. Used with redundant I/O. Horizontal DIN rail mounting. With 2x25 pin D-sub connector.	3BSE069964R1
	TU854 MTU, Redundant, 50V. Used with redundant I/O. Horizontal DIN rail mounting. With 1x25 pin D-sub connector. Shunt Stick not included.	3BSE069966R1
	TU890 Intrinsic Safety MTU Module Termination Unit with Intrinsic Safety Interface, 3x9 signal terminals. Including wiring separator.	3BSC690075R1
	TU891 non-IS MTU Module Termination Unit for 3x9 signal terminals. For non Intrinsic Safety.	3BSC840157R1
	TY801K01 8 pcs Shunt Sticks 125 + 125 ohms shunt. Used for AI845 and AI880A on TU834, TU844, TU845, TU854.	3BSE023607R1
	TY804K01 8 pcs Shunt Sticks 1000 ohms shunt. Used for DP840 on TU844, TU845, TU854	3BSE033670R1
	TY805K01 8 pcs Shunt Sticks 125 + 125 ohms shunt with current limitation on transmitter power. Used for AI845 and AI880A on TU834, TU844, TU845, TU854.	3BSE081160R1
	TY820K01 10 pcs Temperature Sensor TY820 is a temperature sensor with a PT 100 element. Used with Al835/Al835A and Al843 to measure cold junction Temperature.	3BSE056980R1

S800L I/O Modules

Analog Input Modules		Article no.	
	Al801 Analog input 8 ch. 0(4)20mA, 12bit, single ended.	3BSE020512R1	
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Analog Output Modules	Article no.	
AO801 Analog output 8 ch.	3BSE020514R1	
0(4)20mA, 12 bit, RLmax 850 Ohm.		

Digital Input Modules		Article no.	
	DI801 Digital Input 24V 16 ch. Current sink.	3BSE020508R1	
	DI802 Digital Input 120V 8 ch. Induvidually galvanic isolated channels	3BSE022360R1	
	DI803 Digital Input 230V 8 ch. Induvidually galvanic isolated channels	3BSE022362R1	

Digital Output Modules		Article no.	
	DO801 Digital Output 24V 16 ch. 0.5A Short circuit proof.	3BSE020510R1	
	DO802 Digital Output Relay 8 ch Induvidually galvanic isolated channels.	3BSE022364R1	

S800L I/O

Label sets for S800L I/O Modules

el sets for S800L I/O Modules		Article no.
	Label Set S800L, 16 ch Text colour: Black, Text style: Helv. reg., Text height: 2mm, Material: Polyesterfilm Xeroperm t=0,12. Sheet with 12 labels for 16 channels I/O modules.	3BSE019419R1
	Label Set S800L, 8 ch Text colour: Black, Text style: Helv. reg., Text height: 2mm, Material: Polyesterfilm Xeroperm t=0,12. Sheet with 12 labels for 8 channels I/O modules.	3BSE019419R2

S800 I/O and S800L I/O

ModuleBus Communication Parts

ModuleBus Communication Parts	TB805 Bus Outlet	Article no.
	TB805 Bus Outlet	
	Modulebus extension cable adaptor D-sub 25, female. One requried per extension cable TK801.	3BSE008534R1
	TB845, Dual Modulebus outlet Modulebus extension cable adaptor two D-sub, female. Two TK801 cables for redundancy.	3BSE021437R1
	TB806 Bus Inlet Modulebus extension cable adaptor D-sub 25, male. One requried per extension cable TK801.	3BSE008536R1
area litteri	TB846, Dual Modulebus inlet Modulebus extension cable adaptor two D-sub, male. Two TK801 cables for redundancy.	3BSE021439R1
Bo-Wood		
	TK801V003 Cable, 0.3 m Modulebus Extension Shielded Cable 0.3m D-sub 25, male-female.	3BSC950089R1
	TK801V006 Cable, 0.6 m Modulebus Extension Shielded Cable 0.6m D-sub 25, male-female.	3BSC950089R2
	TK801V012 Cable, 1.2 m Modulebus Extension Shielded Cable 1.2m D-sub 25, male-female.	3BSC950089R3
	TB807 Modulebus terminator Terminator for Modulebus	3BSE008538R1
Ass	TB820V2 Modulebus Cluster Modem Optical cluster modem for non redundant operation. Including: 1 pce Power Supply Connector 1 pce TB807 Modulebus Terminator	3BSE013208R1
	TB825 Optical Media Converter Multi Mode Short to long distance optical fiber conversion. For modulebus communication up to 1000 m.	3BSE036634R1
1	TB826 Optical Media Converter Single Mode Short to long distance optical fiber conversion. For modulebus communication up to 5000 m, for \$800 I/O HI up to 20000 m.	3BSE061637R1
a a mental and a	TB840A Modulebus Cluster Modem Optical cluster modem for 1+1 redundant operation.	3BSE037760R1
ABB	TB842 Modulebus Optical Port Used together with CI801 and CI840, connected via TB806	3BSE022464R1
	or TB846.	
	TU807 Termination Unit for TB840/TB840A For single modulebus I/O. Including: 1 pcs TB807	3BSE039025R1
	TU840 Termination Unit for 1+1 TB840 Support for redundant I/O Including: 1 pce Power Supply Connector 2 pcs TB807 Modulebus Terminator	3BSE020846R1
	TU841 Termination unit for 1+1 TB840 Support for non-redundant I/O. Including: 1 pce Power Supply Connector 1 pce TB807 Modulebus Terminator	3BSE020848R1

S800 I/O and S800L I/O

ModuleBus Communication Parts

ModuleBus Communication Parts		Article no.
11	TU848 Termination Unit for 1+1 TB840 MTU with individual power supply. Support for redundant I/O. Including: - 1 pcs Power Supply Connector - 2 pcs TB807 Modulebus Terminator	3BSE042558R1
	TU849 Termination Unit for 1+1 TB840. MTU with individual power supply. Support for non-redundant I/O. Including: - 1 pcs Power Supply Connector - 1 pcs TB807 Modulebus Terminator	3BSE042560R1
191	TK811V015 POF Cable, 1.5m, Duplex L = 1.5 m latching duplex connector Duplex plastic fibre	3BSC950107R1
	TK811V050 POF Cable, 5m, Duplex L = 5 m latching duplex connector Duplex plastic fibre	3BSC950107R2
	TK811V150 POF Cable, 15m, Duplex L = 15 m latching duplex connector Duplex plastic fibre	3BSC950107R3
	TK812V015 POF Cable, 1.5m, Simplex L = 1.5 m latching connector Simplex plastic fibre	3BSC950118R1
	TK812V050 POF Cable, 5m, Simplex L = 5 m latching connector Simplex plastic fibre	3BSC950118R2
	TK812V150 POF Cable, 15m, Simplex L = 15 m latching connector Simplex plastic fibre	3BSC950118R3

AC 800M Power supply and Voters selection guide

Feature	SD822Z	SD831	SD832	SD833	SD834	SS822Z	SS832	SS823
Rated output current	5 A	3 A	5 A	10 A	20 A	20 A	10 A (20 A in parallell operation)	20 A
Rated output power	120 W	72 W	120 W	240 W	480 W	-	-	-
Rated output voltage	d.c. 24 V	d.c. 24 V	d.c. 24 V	d.c. 24 V	d.c. 24 V	-	-	-
Rated input power	280 VA 135 W	134/143 VA	240/283 VA	447/514 VA	547/568 VA	500 W	240 W (480 W in parallell operation)	500 W
Mains/input voltage, nominal	115/230 V a.c. 225-250 V d.c.	100-240 V a.c. 110-300 V d.c.	100-120 V a.c. 200-240 V a.c. Auto-select input	100-120 V a.c. 200-240 V a.c. Auto-select input	100-240 V a.c. 110-300 V d.c	2x24 V d.c.	2x24 V d.c (1x24 V d.c in parallell operation)	1x24 V d.c
Mains voltage variation allowed	85 - 110%	90-264 V a.c. 88-375 V d.c.	90-132 V a.c. 180-264 V a.c.	90-132 V a.c. 180-264 V a.c.	85-276 V a.c. 88-375 V d.c.	-	-	-
Mains/input voltage, max. (a.c.= 45-65 Hz)	138/275 V a.c. 375 V d.c.	264-300 V a.c.	264-300 V a.c.	264-300 V a.c.	264-300 V a.c.	60 V d.c.	60 V d.c.	60 V d.c.
Primary peak inrush current at power on	Тур 15 А	<28/<54 A	<10 A	<10 A	<13 A	-	-	-
Applications	SELV and PELV	SELV and PELV	SELV and PELV	SELV and PELV	SELV and PELV	-	-	-
Load sharing	Two in parallell	-	-	-	Parallell connection	Two in parallell	Two in parallell	Yes
Power Factor (at rated output power)		0.61/0.56	0.56/0.47	0.59/0.51	0.95/0.90	-	-	-
Heat dissipation	13.3 W	10/8 W	14/13 W	24/22 W	40/32 W	10 W at 20 A and 2,5 W at 5 A	9 W (18 W)	24 W at 20 A and 6 W at 5 A
Efficiency factor	88 %	88/89.8 %	89.4/90.2 %	91/91.6 %	92.4/93.9 %	-	-	-

AC 800M Power supply and Voters selection guide

Feature	SD822Z	SD831	SD832	SD833	SD834	SS822Z	SS832	SS823
Output voltage regulation at max. current	+- 2%	< 50 mV / < 100 mV	< 70 mV / < 100 mV s	< 70 mV / < 100 mV	< 10 mV / < 100 mV	0,5 V lower than input	0.85 V lower than input	1.2 V lower than input
Ripple (peak to peak)	< 50 mV	< 50 mV	< 50 mV	< 50 mV	< 100 mV	-	-	-
Secondary voltage holdup time at mains blackout	> 20 ms	29/120 ms	80/78 ms	46/47 ms	32/51 ms	-	-	-
Maximum output current (min)	10 A	3.3 A	6 A At ambient temp < 45 °C	12 A At ambient temp < 45 °C	30 A < 4 s	35 A (Overload)	25 A (Overload)	35 A (Overload)
Maximum ambient temperature	60 °C	60 °C	60 °C	60 °C	60 °C	60 °C	60 °C	55 °C
Primary: Recommended external fuse (1)	10 A	10-20 A	10-20 A	10-20 A	10-20 A	-	-	-
Secondary: Short circuit	< 10 A	< 8 A	< 14 A	< 18 A	< 40 A	-	-	-
Secondary: Over-Voltage protection	29 V	< 39 V	< 39 V	< 39 V	< 37 V	-	-	< 30 V
Class of protection	I PE (Protective	Earth) connect	ion required			-	-	-
Protection rating	IP20 according	to IEC60529						
Width	65 mm (2.56 in.)	32 mm (1.26 in.)	32 mm (1.26 in.)	60 mm (2.36 in.)	82 mm (3.23 in.)	50 mm (1.97 in.)	32 mm (1.26 in.)	116 mm (4.6 in.)
Depth	110 mm (4.3 in.)	102 mm (4.02 in.)	117 mm (4.61 in.)	117 mm (4.61 in.)	127 mm (5.0 in.)	110 mm (4.3 in.)	117 mm (4.61 in.)	145 mm (5.8 in.) including connector
Height	125 mm (4.9 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	124 mm (4.88 in.)	125 mm (4.9 in.)	125 mm (4.9 in.)	132 mm (5.3 in.)
Mounting spacing Width mm	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.59")	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.59 in.)	15 mm (0.6 in.)
Mounting spacing Height mm	25 mm (1 in.)	40 mm (1.57 in.)	40 mm (1.57 in.)	40 mm (1.57 in.)	40 mm (1.57 in.)	25 mm (1 in.)	25 mm (1 in.)	25 mm (1.2 in.)
Weight (lbs.)	620 g (1.4 lbs)	430 g (0.9 lbs.)	500 g (1.1 lbs.)	700 g (1.5 lbs.)	1200 g (2.6 lbs.)	630 g (1.4 lbs)	350 g (0.77 lbs.)	870 g (1.9 lbs.)
Corrosive atmosphere ISA-S71.04	G3	G2	G2	G2	G2	G3	G2	G3
CE mark	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
El. safety, Haz loc, C1 Zone 2	No	No	No	No	No	No	No	No
El. safety, Haz loc, C1 Div 2	No	No	No	No	Yes	No	No	No
Electrical safety	IEC 61131-2, U	L 508, EN 50178	(Note! UL 508 n	ot valid for SS82	23)			
Pollution degree	Degree 2, IEC 6	50664-1						
Mechanical operating conditions	EN 61131-2							
EMC	EN 61000-6-4	and EN 61000-6	-2					
Overvoltage Categories	Over-voltage C	ategory III (IEC/	'EN 60664-1)					
RoHS compliance	EN 50581:2012							
WEEE compliance	DIRECTIVE/20	12/19/EU						
(1) 14:::	CR) Characteristic	D.						

⁽¹⁾ Microcircuit Breaker (MCB), Characteristic B

Power Supply

Power Supply		Article no.
incomment -	SD822Z Power Supply, 5A IInput 115/230V a.c. switch selectable, output 24V d.c., 5A. If redundant power application is required connect to SS822Z Voting Unit. DIN rail mounted.	3BSC610054R1
# 100 mm	SS822Z Power Voting Unit With dual 24V d.c 20A inputs, single 24V d.c. 20A output. Each power input supervised. Used if redundant power supply is required. For use with power supply SD822Z. DIN rail mounted.	3BSC610055R1
	SD831 Power Supply, 3 A Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 3A. If redundant power application is required connect to SS8XX voting unit. DIN rail mounted. G2 compliant.	3BSC610064R1
	SD832 Power Supply, 5A Input a.c. 100-120/200-240 V. Output d.c. 24 V 5A, autoselect input. If redundant power application is required connect to SD8XX voting unit. DIN rail mounted. G2 compliant.	3BSC610065R1
	SD833 Power Supply, 10A Input a.c. 100-120/200-240 V, auto-select input. Output d.c. 24V 10A. If redundant power application is required connect to SD8XX voting unit. DIN rail mounted. G2 compliant.	3BSC610066R1
	SD834 Power Supply, 20A Input a.c. 100-240 V or d.c. 110-300 V. Output d.c. 24 V 20A. If redundant power application is required connect to SS8XX voting unit. DIN rail mounted. G2 compliant.	3BSC610067R1
	S5832 Power Voting Unit Input d.c. 24 V. Dual 24 V to single 24 V, 2x10A. DIN rail mounted. G2 compliant.	3BSC610068R1
	Mains Breaker Kit for DIN Rail 115/230V 115/230V a.c. with input terminals, breaker and 3 fused (6.3A), double output terminals. Width = 102,5 mm.	3BSE022262R1

S800 I/O

User Documentation

User Documentation		Article no.
	S800 I/O Getting Started User documentation.	3BSE020923-600
	S800 I/O Modules and Termination Units User documentation.	3BSE020924-600
	S800 I/O FCI for PROFIBUS DP/DPV1 S800 I/O Fieldbus Communication Interface for PROFIBUS DP/DPV1	3BSE020926-600
	S800 I/O Modules & TUs with IS Interface S800 I/O Modules and Termination Units with Intrinsic Safety Interface	3BSE020927-600
	S200 I/O Hardware User documentation.	3BSE021356-600
	AC 800M 6.0 Interfacing SATT I/O User documentation.	3BSE042821-600

Network components

NE800 provide pre-configured network components that are tested with System 800xA and Compact Product Suite to ensure top quality performance and provide protection against cyber threats.

Wired switches (NE800) – includes a set of rackand DIN-mounted switches and a wide range of modular transceivers.

Redundant Network Routing Protocol (RNRP) routers are available as part of the NE800 portfolio developed for use with both System 800xA and Compact Product Suite.

NE800 enables you to take control of your network infrastructure, and benefit from the full potential of a robust, highly performing, and secure your process automation system.







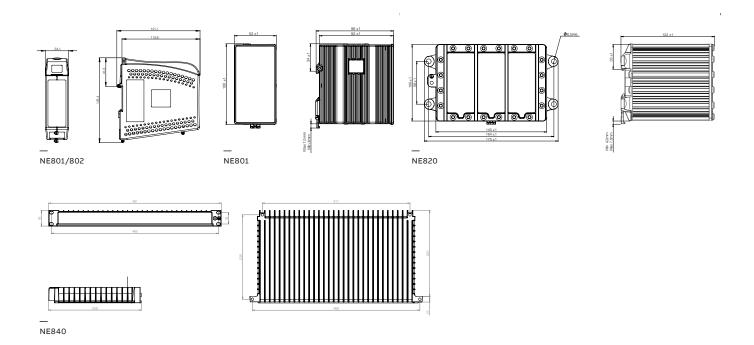


NE840

NE800 selection guide

Specific feature	NE801	NE802	NE810	NE820	NE840
Article number	3BSE080209R1	3BSE080237R1	3BSE080207R1	3BSE080208R1	3BSE080211R1
Managed	Lightly managed (configurable using physical dip-switches)	Lightly managed (configurable using physical dip-switches)	Managed	Managed	Managed
Dimension (W x H x D)	34 x 123 x 121 mm	34 x 123 x 121 mm	52 x 100 x 101 mm	175 x 105 x 122 mm	466 x 258 x 43 mm
Weight	0.2 kg	0.2 kg	0.7 kg	2.2 kg	3.8 kg
Degree of protection	IP21	IP21	IP40	IP40	IP40
Operating voltage	9.6 to 57.6 VDC redundant power input	9.6 to 57.6 VDC redundant power input	19 to 60 VDC redundant power input	16 to 60 VDC redundant power input	90 to 264VAC, 47 to 63 Hz
Rated current	350 mA @ 12 VDC	100 mA @ 12 VDC	240 mA @ 24 VDC 120 mA @ 48 VDC	930 (1120 ⁽¹⁾) mA @ 20 VDC 380 (450 ⁽¹⁾) mA @ 48 VDC	350 mA @ 120 VAC 60 Hz 220 mA @ 240 VAC 50 Hz
Ethernet TX	4 x 10/100 Mbit/s	4 x 10/100/1000 Mbit/s	8 x 10/100 Mbit/s	7 x 10/100/1000 Mbit/s, 8 x 10/100 Mbit/s	7 x 10/100/1000 Mbit/s, 8 x 10/100 Mbit/s
Ethernet SFP pluggable connections (FX or TX)	1 x LC-connection, 100 Mbit/s	1 x 10/100/1000 Mbit/s	2 x 10/100/1000 Mbit/s	4 x 10/100/1000 Mbit/s	4 x 10/100/1000 Mbit/s
Digital I/O	-	-	1 x 4-ports detachable screw terminal	1 x 4-ports detachable screw terminal	1 x 4-ports detachable screw terminal
Console	-	-	1 x 1 x 2.5 mm jack	1 x USB Micro-B connector	1 x USB Micro-B connector
Operating Temperature	-25 to +70 °C	-40 to +74 °C	-40 to +70 °C	-40 to +70 °C	-40 to +55 °C
Temperature Storage & Transport	-25 to +70 °C	-40 to +85 °C	-50 to +85 °C	-50 to +85 °C	-40 to +85 °C
Network redundancy	-	-	Fast reconfiguration of network typology (FRNT) FRNT ring coupling	Fast reconfiguration of network typology (FRNT) FRNT ring coupling	Fast reconfiguration of network typology (FRNT) FRNT ring coupling
Mounting	DIN-mounted	DIN-mounted	DIN-mounted	DIN-mounted	Rack-mounted
Marine certificate	DNV	DNV	DNV	DNV	DNV
G3 compliant	Compliant	Compliant	Compliant	Compliant	Compliant
MTBF (2)	500,000 hours	1,182,374 hours	630,000 hours	303,000 hours	123,000 hours

⁽¹⁾ With 500 mA USB load (2) according to MIL-HDBK-217K

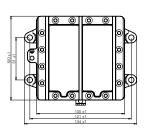


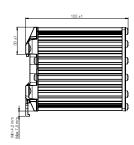
Specific feature	NE870	NE871	
Article number	3BSE080239R1	3BSE080240R1	
Managed	Yes	Yes	
Routing	Yes	Yes	
Firewall	Yes	Yes	
Dimension (W x H x D)	134 x 100 x 122 mm	134 x 100 x 122 mm	
Weight	1.5 kg	1.5 kg	
Degree of protection	IP40	IP40	
Operating voltage	16 to 60 VDC	16 to 60 VDC	
Rated current	0.43 (0.60 ⁽¹⁾) A @ 20 VDC 0.19 (0.25 ⁽¹⁾) A @ 48 VDC	0.31 (0.48 ⁽¹⁾) A @ 20 VDC 0.15 (0.21 ⁽¹⁾) A @ 48 VDC	
Ethernet TX	3 x 10/100/1000 Mbit/s, Ethernet TX, RJ-45 8 x 10/100 Mbit/s, Ethernet TX, RJ-45	3 x 10/100/1000 Mbit/s, Ethernet TX, RJ-45	
Digital I/O	1 x 4-ports detachable screw terminal	1 x 4-ports detachable screw terminal	
Console	1 x USB Micro-B connector	1 x USB Micro-B connector	
Operating Temperature	-40 to +70 °C	-40 to +70 °C	
Temperature Storage & Transport	-50 to +85 °C	-50 to +85 °C	
		Redundant Network Routing Protocol (RNRP) Fast reconfiguration of network typology (FRNT) FRNT ring coppling	
Mounting	DIN-mounted	DIN-mounted	
Marine certificate	DNV	DNV	
G3 compliant	Compliant	Compliant	
MTBF (2)	430.000 hours	430.000 hours	

⁽¹⁾ With 500 mA USB load

⁽²⁾ according to MIL-HDBK-217K

EMC	EN 50121-4	Railway applications – Electromagnetic compatibility – Emission and immunity of the signalling and telecommunications apparatus
	EN 55022	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
	EN 55024	Information technology equipment – Immunity characteristics Limits and methods of measurement
	EN 61000-6-1	Electromagnetic compatibility – Immunity for residential, commercial and light-industrial environments
	EN 61000-6-2	Electromagnetic compatibility – Immunity for industrial environments
	EN 61000-6-3	Electromagnetic compatibility – Emission standards for residential, commercial and light industrial environments
	EN 61000-6-4	Electromagnetic compatibility – Emission standard for industrial environments
	FCC part 15 Clas	s A
Safety	UL/IEC/EN 6095	0-1, IT equipment
Marine	DNV Standard fo	r Certification no. 2.4
RoHS compliance	EN 50581:2012	
WEEE compliance	DIRECTIVE/2012	/19/EU





Network switches

Network switches		Article no.
	NE801 DIN-mounted 5 ports lightly managed switch, 4 10/100Mbit RJ45 ports &100Mbit LC optical port. Redundant 24V DC-power input.	3BSE080209R1
To the state of th	NE802 DIN-mounted 5 ports lightly managed switch; 4 10/100/1000Mbit RJ45 ports & amp; 1Gbit SFP. Redundant 24V DC-power input.	3BSE080237R1
	NE810 DIN-mounted 10 ports managed switch, 8 10/100Mbit RJ45 ports & 2 Gbit SFP ports. Redundant 24V DC-power input.	3BSE080207R1
	NE820 DIN-mounted 19 ports managed switch, 8 10/100Mbit RJ45 ports, 7 Gbit RJ45 ports & 4 Gbit SFP ports. Redundant 24V DC-power input.	3BSE080208R1
*** **** 1 ·	NE840 Rack-mounted 19 ports managed switch, 8 10/100Mbit RJ45 ports, 7 GbitRJ45 ports & 4 Gbit SFP ports. 110/230V AC-power input.	3BSE080211R1

NE800

Network routers/firewalls

Network routers/firewalls		Article no.	
	NE870 DIN-mounted 11 ports RNRP router and firewall, 3 10/100/1000Mbit RJ45 ports and 8 10/100Mbit RJ45 ports. Redundant 24V DC-power input.	3BSE080239R1	
	NE871 DIN-mounted 3 ports RNRP router and firewall, 3 10/100/1000Mbit RJ45 ports. Redundant 24V DC-power input.	3BSE080240R1	

Network accessories

Network accessories		Article no.	
	TK863 Cable.USB 2,5mm plug for NE810	3BSE080212R1	
	TK864 Micro USB Console cable for e.g. NE820, NE840, NE870 & NE871	3BSE080213R1	

Article no.

NE800

Modular Transceivers (SFPs)

Modular Transceivers (SFPs)

	The ABB range of Small Form-factor Pluggable (SFP) transceivers covers versions suitable for 100 Mbit/s and Gigabit applications. LC connectors are used as standard due their small size. Operating temperature specification: –40 to +85°C (–40 to +185°F)	
	PT801 Multimode, LC-connector, 2 km, 1310nm, 100Mbit/s Old type designation: MLC2	3BSE080214R1
	PT802 Singlemode, LC-connector, 20km, 1310nm, 100Mbit/s Old type designation: SLC20	3BSE080215R1
	PT803 Singlemode,BiDi, 20km, 1310nm TX, 1550nm RX, 100Mbit/s Old type designation: SLC20-BiDi-A	3BSE080223R1
	PT804 Singlemode, BiDi, 20 km, 1550nm TX, 1310 RX, 100Mbit/s Old type designation: SLC20-BiDi-B	3BSE080224R1
	PT805 Singlemode, LC-connector, 40km, 1310nm, 100Mbit/s Old type designation: SLC40	3BSE080216R1
	PT806 Singlemode, BIDI, 40Km, 1310nmTX, 1550RX, 100Mbit/s Old type designation: SLC40-BiDi-A	3BSE080227R1
	PT807 Singlemode, BIDI, 40Km, 1550nmTX, 1310RX, 100Mbit/s Old type designation: SLC40-BiDi-B	3BSE080228R1
	PT808 Singlemode, LC-connector, 80km,1550nm, 100Mbit/s Old type designation: SLC80	3BSE080217R1
	PT809 Singlemode, BiDi, 80km, 1310nm TX, 1550nm RX, 100Mbit/s Old type designation: SLC80-BiDi-A	3BSE080235R1
	PT810 Singlemode, BiDi, 80km, 1550nm TX, 1310nm RX, 100Mbit/s Old type designation: SLC80-BiDi-B	3BSE080236R1
	PT811 Singlemode, LC-connector, 120km,1550nm, 100Mbit/s Old type designation: SLC120	3BSE080218R1
	PT812 Singlemode, BiDi, 120km, 1550nm TX, 1490 nm RX, 100Mbit/s. Old type designation: SLC120-BiDi-B	3BSE080233R1
	PT813 Singlemode, BiDi, 120km, 1490nm TX, 1550nm RX, 100Mbit/s. Old type designation: SLC120-BiDi-A	3BSE080234R1

Modular Transceivers (SFPs)

Modular Transceivers (SFPs)		Article no.
	PT814 RJ-45, 100m, 10/100Mbit/s TX	3BSE080232R1
	PT831 Multimode, LC-connector, 550m, 850nm, SX, 1000Mbit/s Old type designation: GMLC550	3BSE080222R1
3350	PT832 Multimode, LC-connector, 2km, 1310nm,SX+, 1000Mbit/s Old type designation: GMLC2	3BSE080225R1
	PT833 Singlemode, LC-connector,10km,1310nm,LX, 1000Mbit/s Old type designation: GSLC10	3BSE080219R1
	PT834 Singlemode,BiDi, 20km 1310nmTX, 1490nm RX, 1000Mbit/s Old type designation: GSLC20-BiDi-A	3BSE080229R1
	PT835 Singlemode, BiDi, 20 km, 1490TX, 1310nm RX, 1000Mbit/s Old type designation: GSLC20-BiDi-B	3BSE080230R1
	PT836 Singlemode,LC-connector,50km,1550nm,XD, 1000Mbit/s Old type designation: GSLC50	3BSE080220R1
	PT837 Singlemode, LC-connector, 80km, 1550nm, ZX, 1000Mbit/s Old type designation: GSLC80	3BSE080221R1
	PT838 Singlemode, LC-connector, 110km, 1550nm, EZX, 1000Mbit/s. Old type designation: GSLC110	3BSE080231R1
	PT839 GCX100-Copper,RJ-45,100m, 1000Base TX	3BSE080226R1

Specifications Optical Transceivers

Product title	Туре	Link speed (Mbit/s)	Indicative range (km)	Power budget (dB)	TX/RX wavelength (nm)
PT801	Multi mode	100	2	20	1310/1310
PT802	Single mode	100	20	17	1310/1310
PT803	Single mode, BiDi	100	20	18	1310/1550
PT804	Single mode, BiDi	100	20	18	1550/1310
PT805	Single mode	100	40	30	1310/1310
PT806	Single mode, BiDi	100	40	26	1310/1550
PT807	Single mode, BiDi	100	40	26	1550/1310
PT808	Single mode	100	80	30	1550/1550
PT809	Single mode, BiDi	100	80	29	1310/1550
PT810	Single mode, BiDi	100	80	35	1550/1310
PT811	Single mode	100	120	35	1550/1550
PT812	Single mode, BiDi	100	120	32	1550/1490
PT813	Single mode, BiDi	100	120	32	1490/1550
PT814	RJ45	10/100	0.1	-	-
PT831	Multi mode	1000	0.3-0.55	9	850/850
PT832	Multi mode	1000	1–2	1	1310/1310
PT833	Single mode	1000	10	11	1310/1310
PT834	Single mode, BiDi	1000	20	15	1310/1490
PT835	Single mode, BiDi	1000	20	15	1490/1310
PT836	Single mode	1000	50	20	1550/1550
PT837	Single mode	1000	80	24	1550/1550
PT838	Single mode	1000	110	30	1550/1550
PT839	RJ45	1000	0.1	-	-

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Extended Warranty Time

S800 I/O, S900 I/O, Fieldbus and AC 800M

Extended warranty time on hardware for S800 I/O, S900 I/O, Fieldbus and AC 800M	Article no.
Terms and conditions for the supply of products from Local Division Process Automation, LBU Control Technologies within ABB AB in Sweden is valid.	
Note that the price for the Extended Warranty Time order will be calculated as a percentage of the affected \$800 I/O, \$900I/O, Fieldbus and AC 800M articles in the accompanying order. • Item A100 => 3% of the affected HW articles within the whole order • Item A110 => 6% of the affected HW articles within the whole order • Item A120 => 9% of the affected HW articles within the whole order	
Extended Warranty 12 additional months S800 I/O, S900 I/O, Fieldbus and AC 800M	3BSE049878R1
Extended Warranty 24 additional months S800 I/O, S900 I/O, Fieldbus and AC 800M	3BSE049878R2
Extended Warranty 36 additional months S800 I/O, S900 I/O, Fieldbus and AC 800M	3BSE049878R3

References

This document includes listings of reference documentation for Compact Product Suite. The listings include the title of the document and the corresponding document number. See also Compact Product Suite Product Catalog 3BSE062980 en G (this document)

For more information about Compact Product Suite please visit our web: www.abb.com/compactproductsuite

Compact HMI	Document no.		
ABB	Product guide	Compact HMI 800 6.0.3.2 Product Guide	3BSE041037-603
Compact Product Sulfs Compact Hill Product Guide	Release notes	Compact HMI 6.0.3.2 Release Notes	3BSE064786-603
	Getting started manual	Compact HMI 6.0.3.2 Getting Started	3BSE040587-603

anel 800			Document no.
	Release notes	Panel 800 Version 6 Release Notes 6.0-3	3BSE069488D610
	Getting started manual	Panel 800 Version 6 Panel Builder Getting Started 6.0-0	3BSE069487-600
	Other manuals	Panel 800 Version 6 Panel Builder Programming and Installation 6.0-3	3BSE069489-610
Compact Product Suite Panel 800 Version 6 Pelesion Notes		Panel 800 Version 6 PP871 Hardware and Installation	3BSE069457-600
Prince and production. ABB		Panel 800 Version 6 PP874 Hardware and Installation	3BSE069458-600
		Panel 800 Version 6 PP874K Hardware and Installation	3BSE069460-600
		Panel 800 Version 6 PP877 Hardware and Installation	3BSE069459-600
		Panel 800 Version 6 PP877K Hardware and Installation	3BSE069461-600
		Panel 800 Version 6 PP882 Hardware and Installation	3BSE069462-600
		Panel 800 Version 6 PP885 Hardware and Installation	3BSE069463-600
		Panel 800 Version 6 PP874M Hardware and Installation	3BSE069466-600
		Panel 800 Version 6 PP885M Hardware and Installation	3BSE069467-600
		Panel 800 Version 6 PP885H Hardware and Installation	3BSE069468-600
		Panel 800 Version 6 PP880R Hardware and Installation	3BSE069469-600
		Panel 800 Version 6 PP885R Hardware and Installation	3BSE069470-600
		Panel 800 Version 6 PP886H Hardware and Installation	3BSE069471-600
		Panel 800 Version 6 CB802 Mounting Instructions	3BSE084263-600

ompact Control Builder	'		Document no.
	Product guide	Compact Control Builder AC 800M 6.0 Product Guide	3BSE041586-600
	Release notes	Compact Control Builder AC 800M 6.0 Release Notes	3BSE033044-6002
AC 800M Compale National	Getting started manual	Compact Control Builder AC 800M 6.0 Getting Started	3BSE041584-600
Store of scholar	Other manuals	Compact Control Builder AC 800M 6.0 Configuration	3BSE040935-600
Prog. and and and and		Compact Control Builder AC 800M 6.0 Planning	3BSE044222-600
		Compact Control Builder AC 800M 6.0 Binary and Analog Handling	3BSE041488-600

AC 800M	'		Document no.
	Product guide	AC 800M 6.0 Controller Hardware Product Guide	3BSE036352-600
	Manuals	AC 800M 6.0 DriveBus	2PAA113566-600
		AC 800M 6.0 PROFIBUS DP Installation	3BDS009029-600
		AC 800M 6.0 PROFIBUS DP Configuration	3BDS009030-600
AC 800M Controller Hardware Product Guide		AC 800M 6.0 Communication Protocols	3BSE035982-600
		AC 800M 6.0 OPC Server	3BSE035983-600
Prove and productivity has been used in		AC 800M 6.0 Controller Hardware	3BSE036351-600
		AC 800M 6.0 Interfacing SATT IO	3BSE042821-600
		AC 800M 6.0 IEC 61850 Configuration for CI868	9ARD171385-600
		AC 800M 6.0 PROFINET IO Configuration	3BDS021515-600
		AC 800M 6.0 EthernetIP DeviceNet Configuration	9ARD000014-600
		AC 800M 6.0 Ethernet/IP DeviceNet Installation	9ARD000015-600

S800				Document no.
		Product guide	S800 I/O Product Guide	3BSE015969-600
		Getting started manual	S800 I/O Getting Started	3BSE020923-600
		Other manuals	S800 I/O Modules and Termination Units	3BSE020924-600
	\$800 VO		S800 I/O Fieldbus Communication Interface for PROFIBUS DP/DPV1	3BSE020926-600
	Product Guide		S800 I/O CI801 Memory Maps	3BSE036959-600
	Primar and productivity. ABB		S800 I/O CI840 Memory Maps	3BSE025251-600
	to shire early		S800 I/O Modules and Termination Units with Intrinsic Safety Interface	3BSE020927-600

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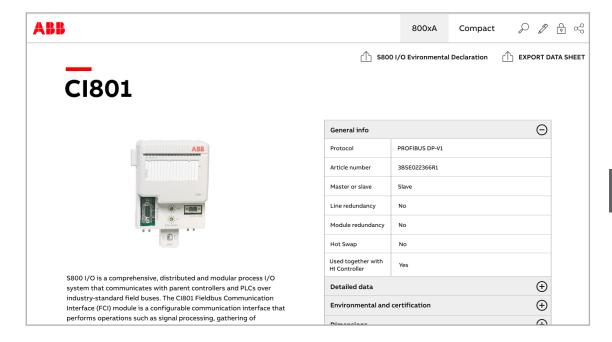




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