Beijer
ELECTRONICS

X2 extreme 15 HP SC
15'' Rugged HMI with iX runtime/CODESYS

1280 × 800 pixel (16:10) TFT-LCD touch screen
High brightness display
CODESYS control integrated
Ethernet 2x100 Mbit
-30ºC to +70ºC operating temperature
DNV, KR, GL, LR, ABS, CCS, BV marine approvals
UL Class I Div 2, ATEX/IECEx Zone 2,22

Facts

General description

Part number	640016805
Part status	Active
Warranty	2 year

Certifications

General	CE, FCC, KCC, UL 61010-2-201
Hazardous	ULC1D2, ATEX (Zone2), ATEX (Zone22), IEXEx (Zone2), IEXEx (Zone22)
Marine	DNV, KR, GL, LR, ABS, CCS, BV

Mechanical

Mechanical size	410 x 286 x 73mm
Mounting option	Panel Mount
Number of touches	1million finger touch operations
Touch type	Resistive
Cut-out size	394 x 270mm
Weight	4.1 kg
Housing material	Powder-coated aluminum, Black

Power

Input voltage	24 V DC (18 to 32 VDC)CE: The power supply must conformwith the requirements according to IEC 60950 and IEC 61558-2-4.UL and cUL: The power supplymust conformwith the requirements for class II power supplies.
Power consumption (max)	32 W
Input fuse	Internal DC fuse

System

CPU	i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1MBL2cache
RAM	2 GB
FLASH	4GB SSD(eMMC), 3.5GB free for application

Display

Softcontrol

Codesys runtime version	3.5
Codesys EtherCAT	Yes
Codesys Modbus Ethernet	Yes
Codesys Modbus RTU	Yes
Non volatile variables	Yes

Communication serial

Number of serial ports	2 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422 (RTS)/RS485
Serial port 3	RS 485

Ethernet communication

Number of ethernet ports	2
Ethernet port 1	1x10/100 Base-T (shielded RJ45)
Ethernet port 2	1x10/100 Base-T (shielded RJ45)

Expansion interface

SD card	SD and SDHC
USB	2xUSB 2.0 500mA

Environmental

Operating temperature	-30ºC to +70ºC
Storage temperature	-40ºC to +80ºC
Shock	40g, half-sine, 11ms according to IEC60068-2-27
Vibration	4g, according to IEC 60068-2-6, Test Fc
Sealing front	IP66, NEMA 4X/ 12 and UL Type 4X/ 12
Sealing back	IP20
Humidity	5% – 95% non-condensed

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Size diagonal	15.4" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	100000 hours
Backlight brightness	1000 cd/m2
Backlight dimming	Marine optimized dimming, down to 0,5 cd/m2
Display type	TFT-LCD with LED backlight

⚙ Drivers

ABB - COMLI Master (5.7.2)	Lenze - LECOM A/B (5.6.0)
ABB - COMLI Slave (4.11.0)	LS Industrial System - Glofa (5.3.0)
ABB - TotalFlow (5.2.1)	LS Industrial System - Master K (5.4.0)
Allen Bradley - ControlLogix Ethernet IP (4.24.1)	Matsushita - MEWTOCOL-COM (5.9.2)
Allen Bradley - DF1 (5.8.0)	Mitsubishi Electric - Alpha2 (5.7.0)
Allen Bradley - DH485 (4.6.2)	Mitsubishi Electric - A-series (C24) (5.6.0)
Allen Bradley - MicroLogix Ethernet (5.6.0)	Mitsubishi Electric - A-series (CPU) (5.10.0)
Allen Bradley - SLC5/PLC5 Ethernet (5.4.0)	Mitsubishi Electric - A-series (E71) (5.4.0)
Altus - Alnet I (5.8.0)	Mitsubishi Electric - Freqrol FR-A PLC (5.8.2)
Animatics - SmartMotor (5.2.1)	Mitsubishi Electric - FX Series ADP/BD (5.10.0)
Beckhoff - ADS (5.12.1)	Mitsubishi Electric - FX Series ENET (5.4.1)
Beckhoff - ADS Symbolic (4.7.0)	Mitsubishi Electric - FX Series Serial (5.16.0)
Beijer Electronics - iX Demo (4.4.0)	Mitsubishi Electric - MC Protocol (5.11.4)
Bernecker + Rainer - Mininet (5.6.0)	Mitsubishi Electric - MR-J2/MR-J3-T MELSERVO (5.9.0)
BoschRexroth - IndraDrive C (5.2.1)	Mitsubishi Electric - QnA/Qnn Serial (5.10.0)
CODESYS - ARTI v2.x, v3.x (4.8.0)	Mitsubishi Electric - QnA/Qnn (C24) (5.5.0)
CODESYS - SoftControl Direct Access (4.4.0)	Mitsubishi Electric - Q-Series Ethernet (E71) (5.5.0)
Cognex - InSight (5.2.2)	Modicon - Modbus Master (5.19.4)
Control Techniques - Unidrive (5.3.1)	Modicon - Modbus Slave RTU/TCP (4.20.2)
CTC - Serial Binary (5.4.2)	NEMA0183 - NEMA 0183 (4.6.0)
Delta - PLC Modbus ASCII (5.6.0)	Omron - Ethernet IP (4.3.3)
Emerson - Modbus Master RTU/ASCII (5.4.0)	Omron - FINS (5.9.5)
Eurotherm - Easy Serial 631 (5.1.1)	Omron - Host Link (5.6.0)
Fatek - Facon (5.10.0)	Regin - EXOline (5.3.2)
Galil - DMC (5.2.2)	SAIA - S-BUS Serial/Ethernet (5.7.0)
GE Fanuc - Ethernet SRTP (5.5.0)	Schneider Electric - Modbus (5.3.0)
GE Fanuc - SNPX (5.6.1)	Schneider Electric - TSX Uni-Telway (4.5.3)
Gidding & Lewis - Motion control (5.4.0)	Siemens - S7 200 PPI (5.8.5)
IAI - Xsel (5.4.1)	Siemens - S7 over TCP (S7-200/300/400/1200/1500) (4.18.0)
Idec - Computer Link (5.8.0)	Siemens - MPI (HMI Adapter) (5.7.0)
Johnson Control - JCONTROL (5.2.1)	WAGO - Modbus TCP (5.10.0)
KEB - COMBIVERT (5.4.0)	Vigor - M/VB-Series (5.6.0)
Keyence - KV-series (5.6.0)	Yamaha - VIP (5.2.1)
Koyo - DirectNET (5.5.0)	Yaskawa - Memobus Master (5.7.0)
Koyo - K Sequence (5.3.1)	Yokogawa - FA-M3 (5.6.0)