X2 extreme 15 SL HP
15'' Rugged sealed HMI with iX runtime

1280 × 800 pixel (16:10) TFT-LCD touch screen
High brightness display
M12 connectors - IP66
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	640014805
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 65mm
Mounting option	VESA 100 x 100
Number of touches	1million finger touch operations
Touch type	Resistive
Cut-out size	N/A
Weight	4.8 kg
Housing material	Powder-coated aluminum, Black

Power

Input voltage	24 VDC (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 supply must conform with the requirements for class 2 power supplies.
Power consumption (max)	28 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

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

Communication serial

Number of serial ports	2 Port 8pin M12
Serial port 1	RS 232
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 (4 pin M12)
Ethernet port 2	1x10/100 Base-T (4 pin M12)

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	IP65
Sealing back	IP65
Humidity	5% – 95% non-condensed

⚙ 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)