X2 extreme 12 SL HP
12'' 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	640014505
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	341 x 243 x 65mm
Mounting option	VESA 100 x 100
Number of touches	1million finger touch operations
Touch type	Resistive
Cut-out size	N/A
Weight	3.4 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)	23 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	12.1" 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