



## X2 extreme 7 SL HP

7" Rugged sealed HMI with iX runtime

800 × 480 pixel (16:9) TFT-LCD touch screen

High brightness display

M12 connectors - IP66

Ethernet 2x100 Mbit

-30°C to +70°C operating temperature

DNV GL, KR, LR, ABS, CCS, BV, NK, RS marine approvals

UL Class I Div 2, ATEX/IECEX Zone 2,22

### Facts

#### General description

Part number	640014205
Life cycle status	Active
Warranty	2 year

#### Certifications

General	CE, FCC, KCC, UL 61010-2-201, UL 746C
Hazardous	ULC1D2, ATEX (Zone2), ATEX (Zone22), IECEx (Zone2), IECEx (Zone22)
Marine	KR, LR, ABS, CCS, BV, NK, DNV GL, RS

#### Mechanical

Mechanical size	205 x 160 x 65mm
Mounting option	VESA 75 x 75
Number of touches	1million finger touch operations
Touch type	Resistive
Cut-out size	N/A
Weight	1.6 kg
Housing material	Powder-coated aluminum, Black

#### Power

Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with 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)	17 W
Input fuse	Internal DC fuse

#### Serial communication

Number of serial ports	2 Port 8pin M12
Serial port 1	RS 232
Serial port 2	RS422/RS485/CAN
Serial port 3	RS485/CAN

#### 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)

#### Communication CAN

Number of CAN ports	2
CAN port 1	1 Mbit
CAN port 2	1 Mbit

#### Expansion interface

SD card	SD and SDHC
USB	2xUSB 2.0 500mA

## System

Hardware platform	X2 extreme SL
CPU	i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1M BL2 cache
RAM	2 GB
FLASH	4GB SSD(eMMC), 3.5GB free for application

## Display

Size diagonal	7" diagonal
Resolution	800x480 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	1000 cd/m <sup>2</sup>
Backlight dimming	Marine optimized dimming
Display type	TFT-LCD with LED backlight

## Environmental

Operating temperature	-30°C to +70°C
Storage temperature	-40°C to +80°C
Shock	40g, half-sine, 11ms according to IEC60068-2-27
Vibration	4g, according to IEC 60068-2-6, Test Fc
Sealing front	IP66 (IP65 for ATEX/IECEX)
Sealing back	IP66 (IP65 for ATEX/IECEX)
Humidity	5% – 95% non-condensed
Altitude (max)	< 3000m