



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
 -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	640014505
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	341 x 243 x 65mm
	VESA 100 x 100
	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 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)	23 W
Input fuse	Internal DC fuse
CPU	i.MX6Quad, Quad ARM Cortex-A9 1.0GHz 1MB L2 cache
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	70000 hours
Backlight brightness	1000 cd/m2
Backlight dimming	Marine optimized dimming
Display type	TFT-LCD with LED backlight

Drivers

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)

Expansion interface

SD card	SD and SDHC
USB	2xUSB 2.0 500mA

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

ABB - COMLI Master (5.7.2)
ABB - COMLI Slave (4.11.0)

Lenze - LECOM A/B (5.6.0)
LS Industrial System - Glofa (5.3.0)

More drivers ▼

⚙️ Smart Engineering Resources

📎 Custom recipe - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6774/custom-recipe---ix-script-module)	📎 Barcode scanner serial - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10086/barcode-scanner-serial-ix-script-module)
📎 MJPEG graphical control - iX application (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6775/mjpeg-graphical-control---ix-application)	📎 X2 base V2 to GL9971 (PIO) sample (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2base-v2-to-gl9971-pio-sample)
📎 Password expire - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7277/password-expire---ix-script-module)	📎 X2 to BFI-P2/H3 by Modbus TCP - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10255/x2-to-bfi-p2-h3-by-modbus-tcp-ix-script-module)
📎 Barcode scanner USB - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6777/barcode-scanner-usb---ix-script-module)	📎 X2 to BFI by Modbus RTU - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10256/x2-to-bfi-by-modbus-rtu-ix-script-module)
📎 FTP Client - iX sample (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10374/ftp-client-ix-sample)	📎 MQTT Client - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10257/mqtt-client-ix-script-module)
📎 Log custom debug messages - iX sample (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6781/log-custom-debug-messages---ix-sample)	📎 MQTT Client (JSON) - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqtt-client-ison-ix-script-module)
📎 Recipes with pictures - iX sample (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7068/recipes-with-pictures---ix-sample)	📎 Detect Internet connection - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10258/detect-internet-connection-ix-script-module)
📎 Customise report - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7070/customize-report---ix-script-module)	📎 Detect VNC Client - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-vnc-client-ix-script-module)
📎 DatePicker - iX Developer script (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7071/datepicker-ix-developer-script)	📎 Detect USB or SD card - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10260/detect-usb-or-sd-card-ix-script-module)
📎 Execute external SQL queries from file (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7275/execute-external-sql-queries-from-file)	📎 X2 to BFI-E3 by Modbus TCP - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10387/x2-to-bfi-e3-by-modbus-tcp-ix-script-module)
📎 Power BI basic process data template (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/9999/power-bi-basic-process-data-template)	📎 Login dialog customized - iX script sample (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-dialog-customized-ix-script-sample)
📎 Excel basic process data template (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7269/excel-basic-process-data-template)	📎 Genset sample - iX template (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset-sample-ix-template)
📎 Scheduler online editor - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10003/scheduler-online-editor---ix-script-module)	📎 X2 Clock sync from PLC - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10391/x2-clock-sync-from-plc-ix-script-module)
📎 OEE calculation example (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oe-calculation-example)	📎 Quadratic terms calculator - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quadratic-terms-calculator-ix-script-module)
📎 Vessel Quick View - iX sample (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10250/vessel-quick-view---ix-sample)	📎 Serial ReadWrite - iX script module (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-readwrite-ix-script-module)