



Facts

General description

Part number	640014605
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	410 x 286 x 73mm
Mounting option	Panel Mount
Number of touches	1 million 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 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)	18 W
Input fuse	Internal DC fuse

System

CPU	i.MX6DualLite, Dual Cortex-A9 800MHz 512kBL2cache
RAM	1 GB
FLASH	2GB SSD(eMMC), 1.5GB free for application

X2 extreme 15

15" Rugged HMI with iX runtime

1280 × 800 pixel (16:10)
TFT-LCD touch screen
1.5 GB application memory
Ethernet 1x100 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

Serial communication

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

Ethernet communication

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

Communication CAN

Number of CAN ports	1
CAN port 1	1 Mbit

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, NEMA 4X/ 12 and UL Type 4X/ 12
Sealing back	IP20
Humidity	5% – 95% non-condensed
Altitude (max)	< 3000m

Display

Size diagonal	15.4" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	450 cd/m2
Backlight dimming	Marine optimized dimming
Display type	TFT-LCD with LED backlight

⚙️ Smart Engineering Resources

- [📄 Vessel Quick View - iX sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10250/vessel-quick-view---ix-sample)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10250/vessel-quick-view---ix-sample)
- [📄 X2 base V2 to GL9971 \(PIO\) sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2basev2togl9971piosample)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2basev2togl9971piosample)
- [📄 X2 to BFI-P2/H3 by Modbus TCP - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10255/x2-to-bfi-p2h3-by-modbus-tcp---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10255/x2-to-bfi-p2h3-by-modbus-tcp---ix-script-module)
- [📄 Quadratic terms calculator - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quadratic-terms-calculator---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quadratic-terms-calculator---ix-script-module)
- [📄 iX CyberSecurity Extension](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/14791/ix-cybersecurity-extension)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/14791/ix-cybersecurity-extension)
- [📄 Recipes with pictures - iX sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7068/recipes-with-pictures---ix-sample)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7068/recipes-with-pictures---ix-sample)
- [📄 Customise report - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7070/customise-report---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7070/customise-report---ix-script-module)
- [📄 DatePicker - iX Developer script](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7071/datepicker---ix-developer-script)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7071/datepicker---ix-developer-script)
- [📄 Execute external SQL queries from file](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7275/execute-external-sql-queries-from-file)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7275/execute-external-sql-queries-from-file)
- [📄 Power BI basic process data template](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/9999/power-bi-basic-process-data-template)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/9999/power-bi-basic-process-data-template)
- [📄 Excel basic process data template](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7269/excel-basic-process-data-template)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7269/excel-basic-process-data-template)
- [📄 iX File browser](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7271/ix-file-browser)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7271/ix-file-browser)
- [📄 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)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10387/x2-to-bfi-e3-by-modbus-tcp---ix-script-module)
- [📄 Login dialog customized - iX script sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-dialog-customized---ix-script-sample)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-dialog-customized---ix-script-sample)

- [📄 Setting up projects for Energy Meter](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7274/setting-up-projects-for-energy-meter)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7274/setting-up-projects-for-energy-meter)
- [📄 Scheduler online editor - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10003/scheduler-online-editor---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10003/scheduler-online-editor---ix-script-module)
- [📄 OEE calculation example](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oe-calculation-example)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oe-calculation-example)
- [📄 Serial ReadWrite - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-readwrite---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-readwrite---ix-script-module)
- [📄 Barcode scanner serial - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10086/barcode-scanner-serial---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10086/barcode-scanner-serial---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)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10256/x2-to-bfi-by-modbus-rtu---ix-script-module)
- [📄 MQTT Client - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10257/mqtt-client---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10257/mqtt-client---ix-script-module)
- [📄 MQTT Client \(JSON\) - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqttclientjsonixscriptmodule)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqttclientjsonixscriptmodule)
- [📄 Detect Internet connection - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10258/detect-internet-connection---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10258/detect-internet-connection---ix-script-module)
- [📄 Detect VNC Client - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-vnc-client---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-vnc-client---ix-script-module)
- [📄 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)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10260/detect-usb-or-sd-card---ix-script-module)
- [📄 Password expire - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7277/password-expire---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7277/password-expire---ix-script-module)
- [📄 Barcode scanner USB - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6777/barcode-scanner-usb---ix-script-module)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6777/barcode-scanner-usb---ix-script-module)
- [📄 FTP Client - iX sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10374/ftp-client---ix-sample)
 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10374/ftp-client---ix-sample)

[!\[\]\(1e1a06ebca281395f282cf61b1470f88_img.jpg\) Genset sample - iX template](#)

(https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset-sample---ix-template)

[!\[\]\(19f0d8884a7d0fabc1023db5dd2e1ce8_img.jpg\) 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)

[!\[\]\(49760b02c8a146741c00a37430e2b11c_img.jpg\) iX OpenBridge template](#)

(https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10672/ix-openbridge-template)

[!\[\]\(348c25c94ee5ca49c1cc96f556376c91_img.jpg\) Log custom debug messages - iX sample](#)

(https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6781/log-custom-debug-messages---ix-sample)

[!\[\]\(cedcab2fc1fa794ed5b1c5e8fe6feae0_img.jpg\) Custom recipe - iX script module](#)

(https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6774/custom-recipe---ix-script-module)

[!\[\]\(5d2d47f332b9ec853eb674ed6ea4548e_img.jpg\) MJPEG graphical control - iX application](#)

(https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6775/mjpeg-graphical-control---ix-application)
