



## X2 extreme 15 HP RO 15" Rugged HMI with iX runtime

1280 × 800 pixel (16:10) TFT-LCD touch screen  
High brightness display  
3.5 GB application memory  
Ethernet 2x100 Mbit  
-30°C to +70°C operating temperature

### Facts

#### General description

Part number	640011705
Life cycle status	Active
Warranty	2 year

#### Certifications

General	CE, FCC, KCC, UL 61010-2-201, UL 746C
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#### Mechanical

Mechanical size	410 x 286 x 73mm
	Panel Mount
	1million 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)	28 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	15.4" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	100000 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 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
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 (shielded RJ45)
Ethernet port 2	1x10/100 Base-T (shielded RJ45)
	2
	1 Mbit
	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

More drivers ▼

Smart Engineering Resources

- [Custom recipe - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6774/custom-recipe---ix-script-module)  
(https://smartstore.beijerelectronics.com/en/Smart\_Engineering\_Resources/6774/custom-recipe---ix-script-module)
- [MJPEG graphical control - iX application](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6775/mjpeg-graphical-control--ix-application)  
(https://smartstore.beijerelectronics.com/en/Smart\_Engineering\_Resources/6775/mjpeg-graphical-control--ix-application)
- [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)  
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- [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)
- [Log custom debug messages - iX sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6781/log-custom-debug-messages--ix-sample)  
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- [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)  
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- [Execute external SQL queries from file](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7275/execute-external-sql-queries-from-file)  
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- [Power BI basic process data template](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/9999/power-bi-basic-process-data-template)  
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- [Excel basic process data template](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7269/excel-basic-process-data-template)  
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- [Scheduler online editor - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10003/scheduler-online-editor--ix-script-module)  
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- [OEE calculation example](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oe-calculation-example)  
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- [Vessel Quick View - iX sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10250/vessel-quick-view--ix-sample)  
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- [Barcode scanner serial - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10086/barcode-scanner-serial-ix-script-module)  
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- [X2 base V2 to GL9971 \(PIO\) sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2base-V2-to-GL9971-PIO-sample)  
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- [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)  
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- [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/mqtt-client-JSON-ix-script-module)  
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- [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)  
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- [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)  
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- [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)  
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- [Login dialog customized - iX script sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-dialog-customized-ix-script-sample)  
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- [Genset sample - iX template](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset-sample-ix-template)  
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- [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)  
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- [Quadratic terms calculator - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quadratic-terms-calculator-ix-script-module)  
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- [Serial ReadWrite - iX script module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-readwrite-ix-script-module)  
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