



## X2 marine 15 HB SC 15" HMI with iX runtime

1280 × 800 pixel (16:10) TFT-LCD touch screen  
1.5 GB application memory  
Ethernet 2x100 Mbit  
CODESYS control integrated  
High brightness display and digital outputs  
CE, FCC, KCC, UL approvals  
DNV GL, KR, LR, ABS, CCS, RS marine approvals

### Facts

#### General description

Part number	640009405
Life cycle status	Active
Warranty	2 year

#### Certifications

General	CE, FCC, KCC, UL 61010-2-201
Marine	KR, LR, ABS, CCS, NK, DNV GL, RS
Safety	UL 61010-1, UL 61010-2-201, CAN/CSA-C22.2 No. 61010-1, CAN/CSA-C22.2 No. 61010-2-201

#### Mechanical

Mechanical size	410 x 286 x 61mm Panel Mount, VESA 75 x 75 1million finger touch operations
Touch type	Resistive
Cut-out size	394 x 270mm
Weight	3.85 kg
Housing material	Powder-coated aluminum, Black

#### Power

Input voltage	24 V DC (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 II power supplies.
Power consumption (max)	33.6W
Input fuse	Internal DC fuse
CPU	i.MX6Quad, Quad ARM Cortex-A9 1.0GHz 1MB L2 cache
RAM	2 GB
FLASH	2GB SSD (eMMC), 1.5GB free for application

#### Display

Size diagonal	15.4" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	30000 hours
Backlight brightness	1000 cd/m <sup>2</sup>
Backlight dimming	Marine optimized dimming
Display type	TFT-LCD with LED backlight

#### Softcontrol

Codesys runtime version	3.5
Codesys EtherCAT	Yes
Codesys Modbus Ethernet	Yes
Codesys Modbus RTU	Yes
CANopen	Yes
Non volatile variables	64 KB

#### Digital IO

Digital output	2xDO Solid state relay, 0.5A@24VDC
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#### Serial communication

Number of serial ports	1 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422/485
Serial port 3	RS485 (only if COM 2 is RS485)

#### 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
	0.5 MBit
	0.5 MBit

#### Expansion interface

Expansion port	Yes, cIX expansion module
SD card	SD and SDHC
USB	2xUSB 2.0 500mA

#### Environmental

Operating temperature	-10°C to +60°C
Storage temperature	-20°C to +70°C
Shock	15g, half-sine, 11ms according to IEC60068-2-27
Vibration	1g, according to IEC 60068-2-6, Test Fc
Sealing front	IP65, NEMA 4X/ 12 and UL 50E Type 4X/ 12
Sealing back	IP20
Humidity	5% – 85% non-condensed

## 🔧 Drivers

ABB - COMLI Master (5.7.2)

ABB - COMLI Slave (4.11.0)

ABB - TotalFlow (5.2.1)

Allen Bradley - ControlLogix Ethernet IP (4.24.1)

Allen Bradley - DF1 (5.8.0)

Allen Bradley - DH485 (4.6.2)

Allen Bradley - MicroLogix Ethernet (5.6.0)

Allen Bradley - SLC5/PLC5 Ethernet (5.4.0)

Altus - Alnet I (5.8.0)

Animatics - SmartMotor (5.2.1)

Lenze - LECOM A/B (5.6.0)

LS Industrial System - Glofa (5.3.0)

LS Industrial System - Master K (5.4.0)

Matsushita - MEWTOCOL-COM (5.9.2)

Mitsubishi Electric - Alpha2 (5.7.0)

Mitsubishi Electric - A-series (C24) (5.6.0)

Mitsubishi Electric - A-series (CPU) (5.10.0)

Mitsubishi Electric - A-series (E71) (5.4.0)

Mitsubishi Electric - Freqrol FR-A PLC (5.8.2)

Mitsubishi Electric - FX Series ADP/RD (5.10.0)

More drivers ▼

## 🔧 Smart Engineering Resources

📄 Custom recipe - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/6774/custom-recipe---ix-script-module](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](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))

📄 Log custom debug messages - iX sample

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/6781/log-custom-debug-messages---ix-sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6781/log-custom-debug-messages---ix-sample))

📄 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))

📄 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))

📄 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))

📄 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))

📄 Vessel central dimming - iX sample

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10252/vessel-sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10252/vessel-sample))

📄 X2 base V2 to GL9971 (PIQ) sample

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10254/x2base](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2base))

📄 X2 to BFI-P2/H3 by Modbus TCP - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10255/x2-to-tcp---ix-script-module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10255/x2-to-tcp---ix-script-module))

📄 X2 to BFI by Modbus RTU - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10256/x2-to-script-module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10256/x2-to-script-module))

📄 MQTT Client - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10257/mqtt](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10257/mqtt))

📄 MQTT Client (JSON) - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10227/mqtt](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqtt))

📄 Detect Internet connection - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10258/detect-ix-script-module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10258/detect-ix-script-module))

📄 Detect VNC Client - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10259/detect-module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-module))

📄 Detect USB or SD card - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10260/detect-script-module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10260/detect-script-module))

📄 NMEA 0183 listener - CODESYS library

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10712/nmea-library](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10712/nmea-library))

📄 X2 to BFI-E3 by Modbus TCP - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10387/x2-to-ix-script-module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10387/x2-to-ix-script-module))

📄 Login dialog customized - iX script sample

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10389/login-script-sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-script-sample))

📄 Genset sample - iX template

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10671/genset](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset))

📄 X2 Clock sync from PLC - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10391/x2-clock-script-module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10391/x2-clock-script-module))

📄 Quadratic terms calculator - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10723/quadratic-ix-script-module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quadratic-ix-script-module))

📄 Serial ReadWrite - iX script module

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/10085/serial-module](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-module))