



## X2 marine 15 HB

### 15" HMI with iX runtime

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

## Facts

### General description

Part number	640003505
Life cycle status	Active
Warranty	2 year

### Certifications

General	CE, FCC, KCC, UL 61010-2-201
Marine	KR, LR, ABS, CCS, NK, DNV GL, BV, 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

## Drivers

### 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

ABB - COMLI Master (5.7.2)

ABB - COMLI Slave (4.11.0)

ABB - TotalFlow (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)

More drivers ▼

## Smart Engineering Resources

<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6774/custom-recipe---ix-script-module">Custom recipe - iX script module</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10252/vessel-central-dimming-ix-sample">Vessel central dimming - iX sample</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10252/vessel-central-dimming-ix-sample">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10252/vessel-central-dimming-ix-sample</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6775/mjpeg-graphical-control---ix-application">MJPEG graphical control - iX application</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2base-v2-to-gl9971-pio-sample">X2 base V2 to GL9971 (PIO) sample</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2base-v2-to-gl9971-pio-sample">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2base-v2-to-gl9971-pio-sample</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7277/password-expire---ix-script-module">Password expire - iX script module</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10255/x2-to-tcp---ix-script-module">X2 to BFI-P2/H3 by Modbus TCP - iX script module</a> <a href="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</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6777/barcode-scanner-usb---ix-script-module">Barcode scanner USB - iX script module</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10256/x2-to-rtu---ix-script-module">X2 to BFI by Modbus RTU - iX script module</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10256/x2-to-rtu---ix-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10256/x2-to-rtu---ix-script-module</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10374/ftp-client-ix-sample">FTP Client - iX sample</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10257/mqtt-client-ix-script-module">MQTT Client - iX script module</a> <a href="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</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6781/log-custom-debug-messages---ix-sample">Log custom debug messages - iX sample</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqtt-client-json-ix-script-module">MQTT Client (JSON) - iX script module</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqtt-client-json-ix-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqtt-client-json-ix-script-module</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7068/recipes-with-pictures---ix-sample">Recipes with pictures - iX sample</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10258/detect-internet-connection-ix-script-module">Detect Internet connection - iX script module</a> <a href="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</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7070/customise-report---ix-script-module">Customise report - iX script module</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-vnc-client-ix-script-module">Detect VNC Client - iX script module</a> <a href="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</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7071/date-picker-ix-developer-script">DatePicker - iX Developer script</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7071/date-picker-ix-developer-script">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7071/date-picker-ix-developer-script</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10260/detect-usb-or-sd-card-ix-script-module">Detect USB or SD card - iX script module</a> <a href="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</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7275/execute-external-sql-queries-from-file">Execute external SQL queries from file</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10712/nmea-0183-listener-codesys-library">NMEA 0183 listener - CODESYS library</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10712/nmea-0183-listener-codesys-library">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10712/nmea-0183-listener-codesys-library</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/9999/power-bi-basic-process-data-template">Power BI basic process data template</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10387/x2-to-bfi-e3-by-modbus-tcp-ix-script-module">X2 to BFI-E3 by Modbus TCP - iX script module</a> <a href="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</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7269/excel-basic-process-data-template">Excel basic process data template</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-dialog-customized-ix-script-sample">Login dialog customized - iX script sample</a> <a href="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</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10003/scheduler-online-editor---ix-script-module">Scheduler online editor - iX script module</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset-sample-ix-template">Genset sample - iX template</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset-sample-ix-template">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset-sample-ix-template</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oeo-calculation-example">OEE calculation example</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oeo-calculation-example">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oeo-calculation-example</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10391/x2-clock-sync-from-plc-ix-script-module">X2 Clock sync from PLC - iX script module</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10391/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</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10250/vessel-quick-view---ix-sample">Vessel Quick View - iX sample</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quadratic-terms-calculator-ix-script-module">Quadratic terms calculator - iX script module</a> <a href="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</a>
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10086/barcode-scanner-serial---ix-script-module">Barcode scanner serial - iX script module</a> <a href="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</a>	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-read-write-ix-script-module">Serial ReadWrite - iX script module</a> <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-read-write-ix-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-read-write-ix-script-module</a>