



**X2 extreme 15 HP**  
**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  
 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	640014705
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
	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 1MBL2cache
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)

**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

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

<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/10086/barc-script-module">📄 Barcode scanner serial - iX script module</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10086/barc-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10086/barc-script-module</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/x2ba">📄 X2 base V2 to GL9971 (PIO) sample</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2ba">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2ba</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-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-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10256/x2-to-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">📄 MQTT Client - iX script module</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10257/mqtt">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10257/mqtt</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">📄 MQTT Client (JSON) - iX script module</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqtt">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqtt</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-ix-script-module">📄 Detect Internet connection - iX script module</a> ( <a href="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</a> )
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7070/customis-report---ix-script-module">📄 Customise report - iX script module</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7070/customis-report---ix-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7070/customis-report---ix-script-module</a> )	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-module">📄 Detect VNC Client - iX script module</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-module</a> )
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7071/datepicker-ix-developer-script">📄 DatePicker - iX Developer script</a> ( <a href="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</a> )	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10260/detect-script-module">📄 Detect USB or SD card - iX script module</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10260/detect-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10260/detect-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/10387/x2-to-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-ix-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10387/x2-to-ix-script-module</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/10389/login-script-sample">📄 Login dialog customized - iX script sample</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-script-sample">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-script-sample</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/10671/genset">📄 Genset sample - iX template</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset</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/10391/x2-cl-script-module">📄 X2 Clock sync from PLC - iX script module</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10391/x2-cl-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10391/x2-cl-script-module</a> )
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oe-calculation-example">📄 OEE calculation example</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oe-calculation-example">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oe-calculation-example</a> )	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quad-ix-script-module">📄 Quadratic terms calculator - iX script module</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quad-ix-script-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quad-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/10085/serial-readwrite-module">📄 Serial ReadWrite - iX script module</a> ( <a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-readwrite-module">https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-readwrite-module</a> )