



## X2 pro 21

### 21" HMI with iX runtime

Full 1920 × 1080 pixel HD resolution (16:9)  
 TFT-LCD touch screen  
 1.5 GB application memory  
 Ethernet 2x100 Mbit  
 0°C to +50°C operating temperature  
 CE, FCC, KCC, UL approvals

## Facts

### General description

Part number	640009505
Life cycle status	Active
Warranty	2 year

### Certifications

General	CE, FCC, KCC
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	556 x 347 x 65mm
	Panel Mount, VESA 75 x 75
	1million finger touch operations
Touch type	Resistive
Cut-out size	539 x 331mm
Weight	7.38 kg
Housing material	Powder-coated aluminum, Gray

### 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)	45.6W
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	21.5" diagonal
Resolution	1920x1080 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	250 cd/m2
Backlight dimming	Industrial 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	0°C to +50°C
Storage temperature	-20°C to +60°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
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> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6774/custom-recipe---ix-script-module)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10252/vessel-central-dimming---ix-sample">Vessel central dimming - iX sample</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10252/vessel-central-dimming---ix-sample)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6775/mjpeg-graphical-control---ix-application">MJPEG graphical control - iX application</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6775/mjpeg-graphical-control---ix-application)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2-base-v2-to-gl9971-pio-sample">X2 base V2 to GL9971 (PIO) sample</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10254/x2-base-v2-to-gl9971-pio-sample)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7277/password-expire---ix-script-module">Password expire - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7277/password-expire---ix-script-module)	<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> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10255/x2-to-tcp---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6777/barcode-scanner-usb---ix-script-module">Barcode scanner USB - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6777/barcode-scanner-usb---ix-script-module)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10256/x2-to-bfi-by-modbus-rtu---ix-script-module">X2 to BFI by Modbus RTU - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10256/x2-to-bfi-by-modbus-rtu---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10374/ftp-client---ix-sample">FTP Client - iX sample</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10374/ftp-client---ix-sample)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10257/mqtt-client---ix-script-module">MQTT Client - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10257/mqtt-client---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6781/log-custom-debug-messages---ix-sample">Log custom debug messages - iX sample</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/6781/log-custom-debug-messages---ix-sample)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqtt-client---ix-script-module">MQTT Client (JSON) - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10227/mqtt-client---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7068/recipes-with-pictures---ix-sample">Recipes with pictures - iX sample</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7068/recipes-with-pictures---ix-sample)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10258/detect-internet-connection---ix-script-module">Detect Internet connection - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10258/detect-internet-connection---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7070/customize-report---ix-script-module">Customise report - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7070/customize-report---ix-script-module)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-vnc-client---ix-script-module">Detect VNC Client - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10259/detect-vnc-client---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7071/date-picker---ix-developer-script">DatePicker - iX Developer script</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7071/date-picker---ix-developer-script)	<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> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10260/detect-usb-or-sd-card---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7275/execute-external-sql-queries-from-file">Execute external SQL queries from file</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7275/execute-external-sql-queries-from-file)	<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> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10387/x2-to-bfi-e3-by-modbus-tcp---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/9999/power-bi-basic-process-data-template">Power BI basic process data template</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/9999/power-bi-basic-process-data-template)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-dialog-customized---ix-script-sample">Login dialog customized - iX script sample</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10389/login-dialog-customized---ix-script-sample)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7269/excel-basic-process-data-template">Excel basic process data template</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/7269/excel-basic-process-data-template)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset-sample---ix-template">Genset sample - iX template</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10671/genset-sample---ix-template)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10003/scheduler-online-editor---ix-script-module">Scheduler online editor - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10003/scheduler-online-editor---ix-script-module)	<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> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10391/x2-clock-sync-from-plc---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oeo-calculation-example">OEE calculation example</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10007/oeo-calculation-example)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quadratic-terms-calculator---ix-script-module">Quadratic terms calculator - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10723/quadratic-terms-calculator---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10250/vessel-quick-view---ix-sample">Vessel Quick View - iX sample</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10250/vessel-quick-view---ix-sample)	<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-read-write---ix-script-module">Serial ReadWrite - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10085/serial-read-write---ix-script-module)
<a href="https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10086/barcode-scanner-serial---ix-script-module">Barcode scanner serial - iX script module</a> (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/10086/barcode-scanner-serial---ix-script-module)	