

X2 series

Strong. Stylish. Smart.

The X2 series is the next generation of HMIs from Beijer **Electronics. Six product families combine great design** with strong performance to power your HMI solutions. Create smart integrated solutions boosted by iX HMI



One family, one great design

X2 panels offer a slim, modern design. Consistent across the entire range, adding visual quality to your solution.



All the performance you need

Power-efficient ARM9 processors all the way up to the latest quad core ARM Cortex-A9 processors deliver fast program execution and screen change. It gives you all the performance you need.



Robust reliability

The robust die cast aluminum body offers great resistance to mechanical stress. We've redesigned the electronics and made other improvements to further enhance solid operation.



Prepared for any environment

X2 panels operate in wide temperature ranges. They offer strong ingress protection and in addition, they hold all the certificates you need to perform in the field.



Integrated CODESYS control

The X2 series offers models with integrated CODESYS IEC 61131-3 PLC functionality directly in the panel by multicore processors for fast, safe program execution.



A simple path forward

It's easy to upgrade your existing iX HMI solution to the X2 series.





A match for every requirement

The X2 series matches almost every requirement and lets you choose from a powerful range of more than 50 models and additional options.

X2 extreme

Rugged HMIs for tough environments

Available in 7, 12 and 15 inches, all in 3 versions: Panel mount standard and highperformance versions, and fully sealed highperformance versions. All high-performance versions offer high brightness display and optional integrated CODESYS PLC functionality.

X2 control

Integrated CODESYS control



Available in 4, 7, 10, 12 and 15 inches.



X2 base

Cost-effective, full functionality HMIs

Available in 5, 7 and 10 inches.

X2 marine

Built for life at sea

Available in 7 and 15 inches with optional high brightness display and integrated CODESYS PLC functionality.

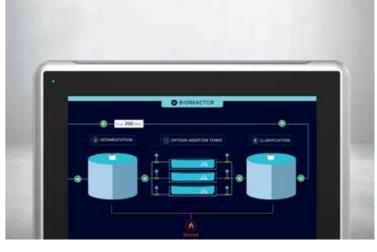
X2 pro

High performance HMIs for all automation needs Available in 4, 7, 10, 12, 15 and 21 inches.



X2 motion

Integrated CODESYS motion and control Available in 4, 7, 10, 12 and 15 inches.









X2 base

Cost-effective, full functionality HMIs

X2 base panels are cost-effective industrial HMIs with highresolution touch-screens and modern design. The X2 base panels combine IP65 corrosion resistant plastic housing with the full version of the iX software, providing a cost-effective yet advanced HMI solution for small to medium applications.

X2 base panels are available in 5, 7 and 10 inches.





See page 20 for technical data.

Features X2 base



Wide screen format

X2 panels offer wide screen format, designed to succeed the traditional 4:3 square aspect ratio.



UL, CE, FCC and KCC certificates

The entire X2 range offers a strong standard certification with UL, CE,

FCC and KCC certificates.



iX software – why you'll love our hardware

The iX software gives you smart

communication tools. iX combines top-class vector graphics and easyto-use functions that provide reliable operation, and almost limitless connectivity to your other equipment.



Fast forward engineering with WARP

Create integrated HMI, control, drives and data

communication solutions with WARP Engineering Studio. WARP automatically configures all hardware, software and communication in your application.



Custom design or non-branded

Profile your brand or go for neutral. X2 panels offer custom

designed or non-branded front foils, as alternatives to the standard Beijer Electronics branded versions.



Power efficient ARM9 processors

Power efficient ARM9 processor provides strong performance for

small and medium sized applications.



Corrosion resistant plastic housing

Corrosion resistant plastic housing with IP65, NEMA 4X/12 and UL Type 4X/12 front.



Operating temperature -10°C to +50°C

The -10°C to +50°C operating

temperature range satisfies the demands of most industries.



All the communication ports you need

X2 base offers 1 × Ethernet, 4 × serial,

1 × USB as standard, securing ample communication with other equipment.

X2 pro

High performance HMIs for all automation needs

X2 pro includes a range of high performance industrial panels designed for demanding applications. All with the high performance of powerful ARM Cortex-A9 processors, the latest screen technology and a wide range of connectivity options to cover all your automation needs.

X2 pro panels are available in 4, 7, 10, 12, 15 and 21 inches.



See page 22-23 for technical data.

Features X2 pro



Wide screen format

X2 panels offer wide screen format, designed to succeed the traditional 4:3 square aspect ratio.



UL, CE, FCC and KCC certificates*

The entire X2 range offers a strong standard certification with UL, CE,

FCC and KCC certificates.



iX software - why you'll love our hardware

The iX software gives you smart

communication tools. iX combines top-class vector graphics and easyto-use functions that provide reliable operation, and almost limitless connectivity to your other equipment.



Fast forward engineering with WARP

Create integrated HMI, control, drives and data

communication solutions with WARP Engineering Studio. WARP automatically configures all hardware, software and communication in your application.



Custom design or non-branded

Profile your brand or go for neutral. X2 panels offer custom

designed or non-branded front foils, as alternatives to the standard Beijer Electronics branded versions.



Powerful ARM Cortex-A9 processor

Powerful single or dual core ARM Cortex-A9 processor delivers

fast screen changes and program execution in demanding applications.



Robust aluminum housing

Robust aluminum housing with IP65, NEMA 4X/12 and UL Type 4X/12

front. Resistant to direct rain, snow or wash-downs, dirt, grime and dust.



Wide operating to +60°C*



Marine certifications*

The X2 panels meet extended classes of marine certifications not

normally carried by HMIs, making them suitable for all onboard locations.



CiX CAN. Profibus and MPI module

It's easy to interface with controllers using optional CiX

CAN, Profibus or MPI modules.



SD memory card

Card holder and USB connection are located behind the lid on the back of the panel for

smart memory expansion, project backup and application loading.



temperature -10°C

The wide -10°C to +60°C operating

temperature range satisfies the demands of most industries.

*X2 pro 21 offers UL, CE and FCC and certificates, no marine certifications and a temperature range of 0°C to +50°C.

X2 marine

Built for life at sea

X2 marine offers user-friendly, reliable operation offshore, on ships and in other maritime applications. With black frame and nautical society certifications, X2 marine panels are suitable for mounting on the bridge, in the engine room and inside cabins. X2 marine panels are available with optional high brightness display and integrated CODESYS PLC functionality.

X2 marine panels are available in 7 and 15 inches with optional high brightness display and integrated CODESYS PLC functionality.

















See page 21 for technical data.

Features X2 marine



Wide screen format

X2 panels offer wide screen format, designed to succeed the traditional 4:3 square aspect ratio.



UL. CE. FCC and **KCC** certificates

The entire X2 range offers a strong standard certification with

UL, CE, FCC and KCC certificates.



iX software - why you'll love our hardware

The iX software gives you smart

communication tools. iX combines top-class vector graphics and easyto-use functions that provide reliable operation, and almost limitless connectivity to your other equipment.



Fast forward engineering with WARP

Create integrated HMI, control, drives and data

communication solutions with WARP Engineering Studio. WARP automatically configures all hardware, software and communication in your application.



Custom design or non-branded

Profile your brand or go for neutral. X2 panels offer custom

designed or non-branded front foils, as alternatives to the standard Beijer Electronics branded versions.



Powerful ARM Cortex-A9 processor

Powerful single, dual or quad core ARM Cortex-A9 processor

delivers fast screen changes and program execution in demanding applications.



Robust aluminum housing

Robust aluminum housing with IP65, NEMA 4X/12 and UL Type 4X/12

front. Resistant to direct rain, snow or wash-downs, dirt, grime and dust.



Wide operating temperature -10°C to +60°C

The wide -10° to +60°C operating

temperature range satisfies the demands of most industries.



Marine certifications

The X2 panels meet extended classes of marine certifications not normally carried by HMIs,

making them suitable for all onboard locations.



CiX CAN. Profibus and MPI module

It's easy to interface with controllers using optional CiX

CAN, Profibus or MPI modules.



SD memory card

Card holder and USB connection are located behind the lid on the back of the panel

for smart memory expansion, project backup and application loading.



Dimmable backlight

Comfortable and safe operation in high and low ambient light. Backlight is continuously

dimmable to less than one cd/m².



High brightness display

Optional 1,000 cd/m² backlight provides excellent readability in

high ambient light levels such as sunlight.



Add control by **CODESYS**

Choose optional IEC 61131-3 PLC functionality by CODESYS, running

on dedicated CPU cores for safe and fast program execution. Just add remote I/Os for a scalable, cost-effective solution.



Built-in digital outputs

X2 marine panels with high brightness option have built-in

digital outputs for direct connection of alarms, signal lights, etc.



Internal isolation

Internal isolation conforms to marine standards for both burst and surge immunity.



X2 control

Integrated CODESYS control

X2 control panels combine industrial HMI and CODESYS PLC functionality in the same compact hardware. Panels range from ultra-compact 4-inch to 15-inch panels designed for demanding applications. Add standard distributed I/Os and you'll get an elegant, scalable and cost-effective solution that's cutting-edge.

X2 control panels are available in 4, 7, 10, 12 and 15 inches.















See page 24-25 for technical data.

Features X2 control



Wide screen format

X2 panels offer wide screen format, designed to succeed the traditional 4:3 square aspect ratio.



UL. CE. FCC and **KCC** certificates

The entire X2 range offers a strong standard certification with

UL, CE, FCC and KCC certificates.



iX software - why vou'll love our hardware

The iX software gives you smart

communication tools. iX combines top-class vector graphics and easyto-use functions that provide reliable operation, and almost limitless connectivity to your other equipment.



Fast forward engineering with WARP

Create integrated HMI, control, drives and data

communication solutions with WARP Engineering Studio. WARP automatically configures all hardware, software and communication in your application.



Custom design or non-branded

Profile your brand or go for neutral. X2 panels offer custom

designed or non-branded front foils. as alternatives to the standard Beijer Electronics branded versions.



Powerful ARM Cortex-A9 processor

Powerful dual or quad core ARM Cortex-A9 processor delivers

fast screen changes and program execution in demanding applications.



Robust aluminum housing

Robust aluminum housing with IP65. NEMA 4X/12 and UL Type 4X/12 front.

Resistant to direct rain, snow or washdowns, dirt, grime and dust.



Wide operating temperature -10°C to +60° C

The wide -10°C to +60°C operating

temperature range satisfies the demands of most industries.



Marine certifications

The X2 panels meet extended classes of marine certifications not normally carried by

HMIs, making them suitable for all onboard locations.



CiX CAN, Profibus and MPI module

It's easy to interface with controllers using optional CiX

CAN, Profibus or MPI modules.



SD memory card

Card holder and USB connection are located behind the lid on the back of the panel

for smart memory expansion, project backup and application loading.



2 Ethernet ports as standard

Panels have two built-in Ethernet ports as standard for

communication with other equipment.



EtherCAT as standard

X2 panels support communication with super-fast EtherCAT as standard.



Control by CODESYS

Integrated IEC 61131-3 PLC functionality by CODESYS, running on dedicated CPU cores for safe and fast

program execution. Just add remote I/Os for a scalable, cost-effective solution.



Built-in digital outputs

10, 12 and 15 inch panels have built-in digital outputs for direct

connection of alarms, signal lights, etc.



Configuration freedom

Applications remain elegantly slim with integrated control in the

panel. Add remote I/Os to fit your needs, and select between three major fieldbuses - EtherCAT, Modbus RTU and Modbus TCP.



Less risk of error with one system

Two separate PLC and HMI systems mean twice the risk of error. X2 control

changes all that. Simply configure your system with WARP and you're done. It's never been easier to create applications.

X2 motion

Integrated CODESYS motion and control

X2 motion panels deliver intuitive HMI with integrated CODESYS motion and PLC functionality in the same compact hardware. Panels range from ultra-compact 4-inch to 15-inch panels designed for demanding applications. Our lean yet powerful hardware with super-fast EtherCAT communication provides the speed you want with the stability you need.

X2 motion panels are available in 4, 7, 10, 12 and 15 inches.



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See page 26-27 for technical data.

Features X2 motion



Wide screen format

X2 panels offer wide screen format, designed to succeed the traditional 4:3 square aspect ratio.



UL, CE, FCC and **KCC** certificates

The entire X2 range offers a strong standard certification with UL, CE,

FCC and KCC certificates.



iX software – why vou'll love our hardware

The iX software gives you smart

communication tools. iX combines top-class vector graphics and easyto-use functions that provide reliable operation, and almost limitless connectivity to your other equipment.



Fast forward engineering with WARP

Create integrated HMI, control, drives and data

communication solutions with WARP Engineering Studio. WARP automatically configures all hardware, software and communication in your application.



Custom design or non-branded

Profile your brand or go for neutral. X2 panels offer custom

designed or non-branded front foils, as alternatives to the standard Beijer Electronics branded versions.



Powerful ARM Cortex-A9 processor

Powerful dual or quad core ARM Cortex-A9 processor delivers

fast screen changes and program execution in demanding applications.



Robust aluminum housing

Robust aluminum housing with IP65, NEMA 4X/12 and UL Type 4X/12 front.

Resistant to direct rain, snow or washdowns, dirt, grime and dust.



Wide operating temperature -10°C to +60° C

The wide -10°C to +60°C operating

temperature range satisfies the demands of most industries.



Marine certifications

The X2 panels meet extended classes of marine certifications not normally carried by HMIs,

making them suitable for all onboard locations.



CiX CAN, Profibus and MPI module

It's easy to interface with controllers using optional CiX CAN, Profibus or MPI modules.



SD memory card

Card holder and USB connection are located behind the lid on the back of the panel for

smart memory expansion, project backup and application loading.



2 Ethernet ports as standard

Panels have two built-in Ethernet ports as standard for

communication with other equipment.



EtherCAT as standard

X2 panels support communication with super-fast EtherCAT as standard.



Motion and control by CODESYS

Integrated CODESYS motion and IEC 61131-3 PLC functionality running

on dedicated CPU cores for safe and fast program execution. Connect directly to a BSD servo drive and add I/Os for a scalable, cost-effective solution.



Built-in digital outputs

10, 12 and 15 inch panels have built-in digital outputs for direct

connection of alarms, signal lights, etc.



Configuration freedom

Applications remain elegantly slim with integrated control/

motion in the panel. Add BSD servo drives and remote I/Os to fit your needs, and take advantage of the super-fast EtherCAT communication.



Get a head start

You're off to a flying start with our readymade template project which sets up all the

basic settings for iX and CODESYS. Download the project, adapt it to your application and you're good to go.



Servo drives and motors fitting seamlessly

Our servo drives and motors give you

great functions such as auto detect of motor and encoder, online auto tuning, advanced filters, open high-speed EtherCAT network, safe torque-off, etc.

X2 extreme

Rugged HMIs for tough environments

X2 extreme panels are certified by all major classification societies. Designed to perform in rugged environments and in hazardous areas where gases, vapors and dust are present. Extended environmental capabilities include operating temperatures from -30°C to +70°C, high vibrations and highpressure wash-downs.

X2 extreme panels are available in 7, 12 and 15 inches, all in 3 versions: Panel mount standard and high-performance versions, and fully sealed high-performance versions. All high-performance versions offer high brightness display and optional integrated CODESYS PLC functionality.





















See page 28-31 for technical data.

Features X2 extreme



Wide screen format

X2 panels offer wide screen format, designed to succeed the traditional 4:3 square aspect ratio.



UL. CE. FCC and **KCC** certificates

The entire X2 range offers a strong standard certification with UL, CE,

FCC and KCC certificates.



iX software - why you'll love our hardware

The iX software gives you smart

communication tools. iX combines top-class vector graphics and easyto-use functions that provide reliable operation, and almost limitless connectivity to your other equipment.



Fast forward engineering with WARP

Create integrated HMI, control, drives and data

communication solutions with WARP Engineering Studio. WARP automatically configures all hardware, software and communication in your application.



Custom design or non-branded

Profile your brand or go for neutral. X2 panels offer custom

designed or non-branded front foils, as alternatives to the standard Beijer Electronics branded versions.



Powerful ARM Cortex-A9 processor

Powerful dual or quad core ARM Cortex-A9 processor delivers

fast screen changes and program execution in demanding applications.



Robust aluminum housing

Robust aluminum housing with IP66 front. Resistant to

direct rain, snow or high-pressure washdowns, dirt, grime and dust.



Extreme operating temperature -30°C to +70°C

Extreme -30°C to +70° C operating temperature

range guarantees trouble-free use in the harshest environments.



Marine certifications

The X2 panels meet extended classes of marine certifications not normally carried

by HMIs, making them suitable for all onboard locations.



Integrated CAN bus

It's easy to interface with controllers using the integrated CAN bus.



SD memory card

Card holder and USB connection are located behind the lid on the back of the panel

for smart memory expansion, project backup and application loading.



Dimmable backlight

Comfortable and safe operation in high and low ambient light conditions. Backlight is continuously

dimmable to less than one cd/m2.



High brightness display

All high-performance versions feature 1,000 cd/m2 backlight

providing excellent readability in high ambient light levels such as sunlight.



Add control by CODESYS

All high-performance versions offer integrated CODESYS IEC 61131-3

PLC functionality running on dedicated CPU cores for safe and fast program execution. Just add remote I/Os for a scalable, cost-effective solution.



Certified for hazardous environments

Certified for use in hazardous areas where

gases, vapors and dust are present.



Internal isolation

Internal isolation conforms to marine standards for both burst and surge immunity.



High vibration

Panels are tested to 4 g RMS sweep sine for vibration and 40 g 11 ms half sine for shock.



Panel mount

Panel mount versions hold IP66, NEMA 4X/12 and UL Type 4X/12 ingress protection

rating for the front and conform to ATEX Zone 2 and ATEX Zone 22 certification.



Fully sealed

Fully sealed versions with M12 connectors hold IP65 ingress protection rating for

the entire product and conform to ATEX Zone 2 and ATEX Zone 22 certification.

iX software – why you'll love our hardware

The iX software gives you smart communication tools. It combines top-class vector graphics and easy-to-use functions that provide reliable operation, and almost limitless connectivity to your other equipment.



Fast forward engineering

Create integrated HMI, control, drives and data communication solutions with WARP Engineering Studio. WARP automatically configures all hardware, software and communication in your application. What used to take days to set up, can be up and running in a few minutes.



Efficient workflow

Speed up engineering in an intuitive development environment filled with shortcuts. Pre-styled objects, a customizable workspace, a component library and a smart property grid are some of the features that'll boost your workflow. Share your customized objects and advanced script modules with colleagues.

Complete HMI functionality

It's easy to get your application up and running. All essential functions you need are included such as data logging, recipes, alarms, trends and audit trail. Take advantage of ready-made objects with built-in functionality, vector-based symbols and graphics that can be easily inserted into the screen.

Functionality for advanced users

iX has support for .NET technology, providing options to design specialized functionality. Use C# scripting or .NET components. Take advantage of third party objects and import .NET assemblies to extend the functionality

further. Control and exchange data with multiple controllers and enjoy connectivity via SQL, FTP, OPC and web.

Connect to all automation brands

An extensive driver list enables communication with hundreds of unique PLCs and automation equipment from all major manufacturers. Share information easily between users and have safe control of complex systems, even over long distances. Transfer files and control panels remotely with FTP and VNC servers.



Features

- Seamless integration of Beijer Electronics products
- Structured and integrated workflow with drag & drop
- Auto-configuration of all hardware, software and communication settings
- · Simply draw lines to interconnect devices
- Avoid mistakes and work failsafe with auto-resolve
- Access all individual application program editors automatically
- Smart objects with embedded functionality such as PLC code or HMI screens
- Easy distribution, backup and recovery of projects
- · Shortcuts to important documentation
- Generate bill of material for simplified purchase

Save time with smart objects

A great feature of WARP Engineering Studio is the introduction of smart objects. A smart object includes ready-made, embedded functionality such as PLC code, HMI screens, etc. Drag a smart object into your workspace and just drop it on a device. All embedded code is then injected into the targeted devices. Smart and time-saving.

Industrial apps in Smart Store

The future of automation engineering is object-oriented, visual and user-community based. With the introduction of our Smart Store, you will find a growing multitude of industrial apps – smart objects, software and software updates that you can download and use immediately.





Download iX HMI software

Go to smartstore.beijerelectronics.com and try out the free demo version of iX.





Download WARP Engineering Studio

 $Go\ to\ smart store. beijer electronics. com\ and\ try\ out\ the\ full\ version\ of\ WARP\ Engineering\ Studio\ for\ free.$

Technical data – X2 base
Technical data - X2 marine







	X2 base 5	X2 base 7	X2 base 10	
General description				
Part number	630005105	630005205	630005305	
Warranty		2 year		
Certifications				
General		CE, FCC, KCC		
Marine		NA		
UL		UL 61010-2-201		
Mechanical				
Mechanical size	170 × 107 × 49 mm	196 × 146 × 52 mm	284 × 187 × 52 mm	
Touch type		Resistive		
Cut-out size	161 × 93 mm	186 × 136 mm	275 × 177 mm	
Weight	0.5 kg	0.7 kg	1.3 kg	
Housing material		Plastic (PC+ABS), Gray		
Power				
Input voltage		24 V DC (18 to 32 VDC)		
Power consumption, max	6W	9.6W	10.8W	
Input fuse		Internal DC fuse		
System				
CPU		ARM9 400 MHz		
RAM		128 MB		
FLASH		256 MB, 200 MB free for application storag	ge	
Display				
Size diagonal	5" diagonal	7" diagonal	10.1" diagonal	
Resolution		800 × 480 pixels		
Backlight	LED Backlight			
Backlight life time	20 000 hours			
Backlight brightness	300 cd/m²	400 cd/m ²	350 cd/m²	
Backlight dimming	Industrial Dimming			
Display type	TFT-LCD with LED backlight			
Communication serial				
Number of serial ports	2 Port 9pin DSUB			
Serial port 1	RS 232 (RTS/CTS)			
Serial port 2	RS422/485			
Serial port 3		RS 232		
Serial port 4	RS 485			
Ethernet communication				
Number of ethernet ports		1		
Ethernet port 1	1 × 10/100 Base-T (shielded RJ45)			
Ethernet port 2		NA		
Expansion interface				
Expansion port	No			
SD card	No			
USB	1×USB 2.0 500mA			
Environmental				
Operating temperature		-10°C to +50°C		
Storage temperature	-20° 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 Type 4X/12			
Sealing back	IP20			
Humidity		5% – 85% non-condensed		





	X2 marine 7 (HB, SC, HB SC)	X2 marine 15 (HB, SC, HB SC)	
General description			
Part number	630002505 (HB: 630008705, SC: 630008605, HB SC: 630008805)	640003305 (HB: 640003505, SC: 640009005, HB SC: 640009405)	
Warranty	· · · · · · · · · · · · · · · · · · ·	ear	
Certifications*	,		
General	CE, FCC, KCC		
Marine	· · ·	BS, CCS, EN60945, NK	
UL		10-2-201	
Mechanical			
Mechanical size	204 × 143 × 50mm	410 × 286 × 61mm	
Touch type	Resi	stive	
Cut-out size	189 × 128mm	394 × 270mm	
Weight	0.8 kg	3.85 kg	
Housing material	Powder-coated	aluminum, Black	
Power			
Input voltage	24 V DC (18	3 to 32 VDC	
Power consumption, max	14.4W (HB: 21.6W, SC: 14.4W, HB, SC: 21.6W)	31.2W (HB: 33.6W, SC: 31.2W, HB SC: 33.6W)	
Input fuse	Internal	DC fuse	
System			
СРИ	i.MX6Solo Single Cortex-A9 1.0GHz 512kBL2cache (HB, HB SC: Quad ARMCortex-A9, SC: Dual Cortex-A9)	i.MX6Quad, Quad ARMCortex-A91.0GHz1MBL2cache	
RAM	512 MB (HB, HB SC: 2 GB, SC: 1 GB)	2 GB	
FLASH	2GB SSD(eMMC), 1.5GB fr	ee for application storage	
Display			
Size diagonal	7" diagonal	15.4" diagonal	
Resolution	800 × 480 pixels	1280 × 800 pixels	
Backlight	LED Ba	cklight	
Backlight life time	50 000 hours	50 000 hours (HB, HB SC: 30 000 hours)	
Backlight brightness	500 cd/m² (HB, HB SC: 1000 cd/m²)	450 cd/m² (HB, HB SC: 1000 cd/m²)	
Backlight dimming	Marine optimized dimn	ning, down to 0,5 cd/m²	
Display type	TFT-LCD with	LED backlight	
Softcontrol			
CODESYS runtime version	NA (HB: NA, SC: 3.5, HB SC: 3.5)		
CODESYS EtherCAT	NA (HB: NA, SC:	Yes, HB SC: Yes)	
CODESYS Modbus Ethernet	NA (HB: NA, SC:	Yes, HB SC: Yes)	
CODESYS Modbus RTU	NA (HB: NA, SC:	Yes, HB SC: Yes)	
Non volatile variables	NA (HB: NA, SC: 32KB, HB SC: 64KB)	NA (HB: NA, SC: 64KB, HB SC: 64KB)	
Digital IO			
Digital output	NA (HB, HB SC: 2×DO Solid	d state relay, 0.5A@24VDC)	
Communication serial		1.000	
Number of serial ports		oin DSUB	
Serial port 1	-	RTS/CTS)	
Serial port 2		2/485	
Serial port 3	RS485 (only if COM 2 is RS485)		
Ethernet communication	1/HD CC HD CC 3)	2	
Number of ethernet ports	1 (HB, SC, HB SC: 2)	Z (chiolded PIAE)	
Ethernet port 1		T (shielded RJ45) 1×10/100 Base-T (shielded RJ45)	
Ethernet port 2 Expansion interface	NA (HB/SC/HB SC: 1×10/100 Base-T - shielded RJ45)	1× 10/ 100 dase-1 (Silletaed K)45)	
Expansion interrace Expansion port	Vac ciV avna	nsion module	
SD card	Yes, ciX expansion module SD and SDHC		
USB	1× USB 2.0 500mA (HB/HB SC: 2×USB 2.0 500mA)	2×USB 2.0 500mA	
Environmental	1 0.50 2.0 300mm (Hb/Hb 3C. 2×0.50 2.0 300mm)	2 × 030 2.0 300/IIA	
Operating temperature	-10°C +	0+60°C	
Storage temperature		0 +70°C	
Shock		ording to IEC60068-2-27	
Vibration	•	6 60068-2-6, Test Fc	
Sealing front		and UL Type 4X/12	
Sealing back			
Humidity		IP20	
пишиту	5% – 85% non-condensed		

*Certifications pending. Please refer to www.beijerelectronics.com/x2 for detailed status.





	X2 pro 4	X2 pro 7	
General description			
Part number	630000105	630000205	
Warranty	2 y	ear	
Certifications*	,		
General	CE, FC	C, KCC	
Marine	BV, DNV GL, KR,	LR, ABS, CCS, NK	
UL		0-2-201	
Mechanical			
Mechanical size	145 × 104 × 50 mm	204×143×50 mm	
Touch type	Resi	stive	
Cut-out size	130 × 89 mm	189 × 128mm	
Weight	0.5 kg	0.8 kg	
Housing material		aluminum, Gray	
Power			
Input voltage	24 V DC (18	to 32 VDC)	
Power consumption, max	12W	14.4W	
Input fuse		DC fuse	
System			
CPU	i.MX6Solo Single Cortex-	A9 1.0GHz 512kBL2cache	
	_		
RAM	512	MB	
FLASH	2GB SSD(eMMC), 1.5GB free for application storage		
Display			
Size diagonal	4.3" diagonal	7" diagonal	
Resolution	480 × 272 pixels 800 × 480 pixels		
Backlight	LED Backlight		
Backlight life time	50 000 hours	20 000 hours	
Backlight brightness	300 cd/m²	350 cd/m²	
Backlight dimming	Industrial Dimming		
Display type	TFT-LCD with LED backlight		
Communication serial			
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	1		
Ethernet port 1	1×10/100 Base-T (shielded RJ45)		
Ethernet port 2	N	A	
Expansion interface			
Expansion port	Yes, ciX expansion module		
SD card	SD and SDHC		
USB	1×USB 2.0 500mA		
Environmental			
Operating temperature	-10°C to	0+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	IP66, NEMA 4X/12 and UL Type 4X/12	IP65, NEMA 4X/12 and UL Type 4X/12	
Sealing back	IP20		
Humidity	5% – 85% non-condensed		

 $[\]hbox{*Certifications pending. Please refer to www.beijerelectronics.com/x2 for detailed status.}$









X2 pro 10	X2 pro 12	X2 pro 15	X2 pro 21		
(2222222		(1000000	((0000505		
630000305	640000205	640000305	640009505		
2 ye	ear		2 year		
	CE ECC VCC		CE ECC		
	CE, FCC, KCC BV, DNV GL, KR, LR, ABS, CCS, NK		CE, FCC NA		
		10-2-201	IVA		
	02.010	10-2-201			
292×194×52mm	340×242×57 mm	410 × 286 × 61mm	556 × 347 × 65mm		
272 ~ 174 ~ 3211111		istive	330 × 347 × 6311111		
275 × 177mm	324 × 226mm	394×270mm	539 × 331mm		
1.65 kg	2.6 kg	3.85 kg	7,38 kg		
1.03 Kg		aluminum, Gray	7,50 %		
	24 V DC (18	8 to 32 VDC)			
21.6W	28.8W	31.2W	45,6W		
		l DC fuse			
i.MX6D	ualLite, Dual Cortex-A9 1.0GHz 512kB	L2cache	i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1MBL2cache		
	1 GB		2 GB		
	2GB SSD(eMMC), 1.5GB f	ree for application storage			
10.1" diagonal	12.1" diagonal	15.4" diagonal	21,5" diagonal		
1024 × 600 pixels	1280 × 800 pixels	1280 × 800 pixels	1920 ×1080 pixels		
	LED Ba	acklight			
	50 00	0 hours			
500 cd/m ²	400 cd/m²	450 cd/m²	250 cd/m²		
	Industrial Dimming				
	TFT-LCD with	LED backlight			
	1 Port 9	pin DSUB			
		(RTS/CTS)			
		22/485			
	RS485 (only if	COM 2 is RS485)			
	2				
		-T (shielded RJ45)			
	1×10/100 Base-T (shielded RJ45)				
	Yes, ciX expansion module				
SD and SDHC					
2×USB 2.0 500mA					
	-10°C to +60°C				
	-10°C to +60°C				
	-20°C to +70°C -20°C to +60°C 15g, half-sine, 11ms according to IEC60068-2-27				
	1g, according to IEC 60068-2-6, Test Fc IP65, NEMA 4X/12 and UL Type 4X/12				
		220 220			
	5% – 85% non-condensed				





X2 control 4	X2 control 7
630001705	630001805
2 yı	ear
CE, FC	C, KCC
UL 6101	
145×104×50mm	204×143×50mm
Resi	stive
130 × 89mm	189×128mm
0.5 kg	0.8 kg
Powder-coated	aluminum, Gray
24 V DC (18	to 32 VDC)
12W	14.4W
Internal	DC fuse
i.MX6DualLite, Dual Corte	x-A9 1.0GHz 512kBL2cache
10	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
4.3" diagonal	7" diagonal
•	800×480 pixels
-	
	20 000 hours
	350 cd/m²
Industrial Dimming	
TFT-LCD with LED backlight	
205	
3.5	
Yes	
Yes	
Yes	
-	·· ·
1 Port 9n	oin DSUB
	·
, es (em) ii e	
	2
1107.130 Buse	. (
Yes, ciX expa	nsion module
Yes, ciX expansion module SD and SDHC	
1×USB 2.0 500mA	
1 × 03D 2.	
.100C+a	1+60°C
	0+60°C
-20°C to	o +70°C
-20°C to 15g, half-sine, 11ms acco	o +70°C ording to IEC60068-2-27
-20°C to 15g, half-sine, 11ms acco 1g, according to IEC	o +70°C ording to IEC60068-2-27 60068-2-6, Test Fc
-20°C to 15g, half-sine, 11ms acco	o +70°C ording to IEC60068-2-27 60068-2-6, Test Fc IP65, NEMA 4X/12 and UL Type 4X/12
	630001705 2 y CE, FC BV, DNV GL, KR, UL 6101 145 × 104 × 50mm Resi 130 × 89mm 0.5 kg Powder-coated 24 V DC (18 12W Internal i.MX6DualLite, Dual Corte 10 2GB SSD(eMMC), 1.5GB fr 4.3" diagonal 480 × 272 pixels LED Ba 50 000 hours 300 cd/m² Industrial TFT-LCD with 3 You You You State of the property of

^{*}Certifications pending. Please refer to www.beijerelectronics.com/x2 for detailed status.



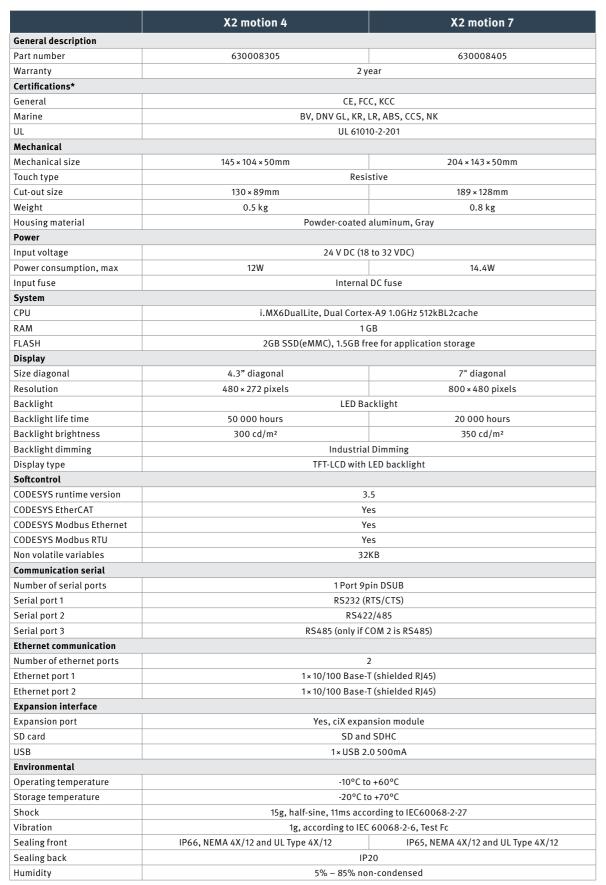




X2 control 10	X2 control 12	X2 control 15		
620001005	640002205	64000340E		
630001905	640002205 2 year	640002405		
	z yeai			
	CE, FCC, KCC			
	BV, DNV GL, KR, LR, ABS, CCS, NK			
	UL 61010-2-201			
292×194×52 mm	340 × 242 × 57 mm	410 × 286 × 61 mm		
	Resistive			
275×177 mm	324 × 226 mm	394 × 270mm		
1.65 kg	2.6 kg	3.85 kg		
	Powder-coated aluminum, Gray	-		
	24 V DC (18 to 32 VDC)			
21.6W	28.8W	31.2W		
	Internal DC fuse			
i	.MX6Quad, Quad ARMCortex-A9 1.0GHz 1MBL2cache	2		
	2 GB			
	$2{\sf GB\ SSD(eMMC)}, 1.5{\sf GB\ free\ for\ application\ storage}$			
10.1" diagonal	12.1" diagonal	15.4" diagonal		
1024 × 600 pixels	1280 × 800 pixels	1280 × 800 pixels		
	LED Backlight			
	50 000 hours			
500 cd/m ²	400 cd/m²	450 cd/m²		
	Industrial Dimming			
	TFT-LCD with LED backlight			
	3.5			
	Yes			
	Yes			
	Yes			
	64KB			
	1 Port 9pin DSUB			
	RS232 (RTS/CTS)			
	RS422/485			
	RS485 (only if COM 2 is RS485)			
	2			
	1×10/100 Base-T (shielded RJ45)			
	1×10/100 Base-T (shielded RJ45)			
	Yes, ciX expansion module			
	SD and SDHC			
	2×USB 2.0 500mA			
	1000			
	-10°C to +60°C			
	-20°C to +70°C			
	15g, half-sine, 11ms according to IEC60068-2-27			
	1g, according to IEC 60068-2-6, Test Fc			
	IP65, NEMA 4X/12 and UL Type 4X/12			
	IP20			
	5% – 85% non-condensed			







^{*}Certifications pending. Please refer to www.beijerelectronics.com/x2 for detailed status.







X2 motion 10	X2 motion 12	X2 motion 15
630008905	640002305	640002505
	2 year	1
	CE, FCC, KCC	
	BV, DNV GL, KR, LR, ABS, CCS, NK	
	UL 61010-2-201	
292×194×52mm	340×242×57mm	410 × 286 × 61mm
275 × 177mm	Resistive 324 × 226mm	394×270mm
1.65 kg	2.6 kg	3.85 kg
1.03 kg	Powder-coated aluminum, Gray	3.63 kg
	Toward course diaminani, oray	
	24 V DC (18 to 32 VDC)	
21.6W	28.8W	31.2W
	Internal DC fuse	
	i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1MBL2cache	2
	2 GB	
	2GB SSD(eMMC), 1.5GB free for application storage	
40.4" !!	40 48 11	45 (1) 11
10.1" diagonal	12.1" diagonal	15.4" diagonal
1024×600 pixels	1280 × 800 pixels	1280 × 800 pixels
	LED Backlight 50 000 hours	
500 cd/m²	400 cd/m ²	450 cd/m²
Joo cajiii-	Industrial Dimming	430 cu/III-
	TFT-LCD with LED backlight	
	255 mm 225 Sacragat	
	3.5	
	Yes	
	Yes	
	Yes	
	64KB	
	1 Port 9pin DSUB	
	RS 232 (RTS/CTS)	
	RS422/485	
	RS485 (only if COM 2 is RS485)	
	2	
	1x10/100 Base-T (shielded RJ45)	
	1x10/100 Base-T (shielded RJ45)	
	into foo base i (siliciaca njas)	
	Yes, ciX expansion module	
	SD and SDHC	
	2xUSB 2.0 500mA	
	-10°C to +60°C	
	-20°C to +70°C	
	15g, half-sine, 11ms according to IEC60068-2-27	
	1g, according to IEC 60068-2-6, Test Fc	
	IP65, NEMA 4X/12 and UL Type 4X/12	
	IP20	
	5% – 85% non-condensed	



	X2 extreme 7	X2 extreme 7 12V	X2 extreme 7 HP (HP SC**)
General description			
Part number	640013905	640014005	640014105 (HP SC: 640016005)
Warranty	040013703	2 year	040014103 (III 3c. 040010003)
Certifications *		z yeai	
General	CE FCC VCC III 61010.2.201 III 7/6C (IIV protection)		
Hazardous	CE, FCC, KCC, UL 61010-2-201, UL 746C (UV protection) UL Class I Div 2, ATEX/IECEx Zone 2,22		
Marine		DNV GL, KR, LR, ABS, CCS, BV, NK	
Mechanical		DIV GL, KK, LK, ABS, CCS, BV, IVK	
Mechanical size		204 x 143 x 62mm	
Touch type		Resistive	
Touch surface		Polyester on glass, ITO film	
Touch operations		1million finger touch operations	
Cut-out size		189 x 128mm	
Weight		0.8 kg	
Housing material		Powder-coated aluminum, Black	
Power		Towaer-coated atainmain, black	
Input voltage	24 V DC (18 to 32 VDC)	12 V DC (9 to 16 VDC)	24 V DC (18 to 32 VDC)
Power consumption	10W	12 V DC (9 to 16 VDC)	17W (HP SC: 17W)
Input fuse	10 44	Internal DC fuse	17 W (III 3C. 17 W)
System		internal DC ruse	
CPU	i.MX6DualLite, Dual Cortex	A 0 8 0 0 M H 7 E 12 k P 1 2 c 2 c b o	i.MX6Quad, Quad ARMCortex-A9
CFU	i.mxobuailite, buai cortex	-A9 SOUMINZ 312KBLZCdCITE	1.0GHz 1MBL2cache
RAM	16		2 GB
FLASH	2GB SSD(eMMC), 1.5GB free for application		4GB SSD(eMMC), 3.5GB free for application
Display			
Size diagonal	7" diagonal		
Resolution		800x480 pixels	
Backlight	LED Backlight		
Backlight life time	50 000	hours	100 000 hours
Backlight brightness	500 c	d/m²	1000 cd/m²
Backlight dimming	Marine optimized dimming, down to 0,5 cd/m²		
Display type	TFT-LCD with LED backlight		
Softcontrol			
CODESYS runtime version	N	A	NA (HP SC: 3.5)
CODESYS EtherCAT	N	A	NA (HP SC: Yes)
CODESYS Modbus Ethernet	N	A	NA (HP SC: Yes)
CODESYS Modbus RTU	N	A	NA (HP SC: Yes)
Non volatile variables	N	A	NA (HP SC: Yes)
Communication serial			
Number of serial ports	1 Port 9p	in DSUB	2 Port 9pin DSUB
Serial port 1		RS232 (RTS/CTS)	
Serial port 2		RS422/RS485/CAN	
Serial port 3	N	A	RS485/CAN
Ethernet communication			
Number of Ethernet ports	1		2
Ethernet port 1		1x10/100 Base-T (shielded RJ45)	
Ethernet port 2	N	A	1x10/100 Base-T (shielded RJ45)
Expansion interface			
Expansion port		NA	
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		
		, . , ,	





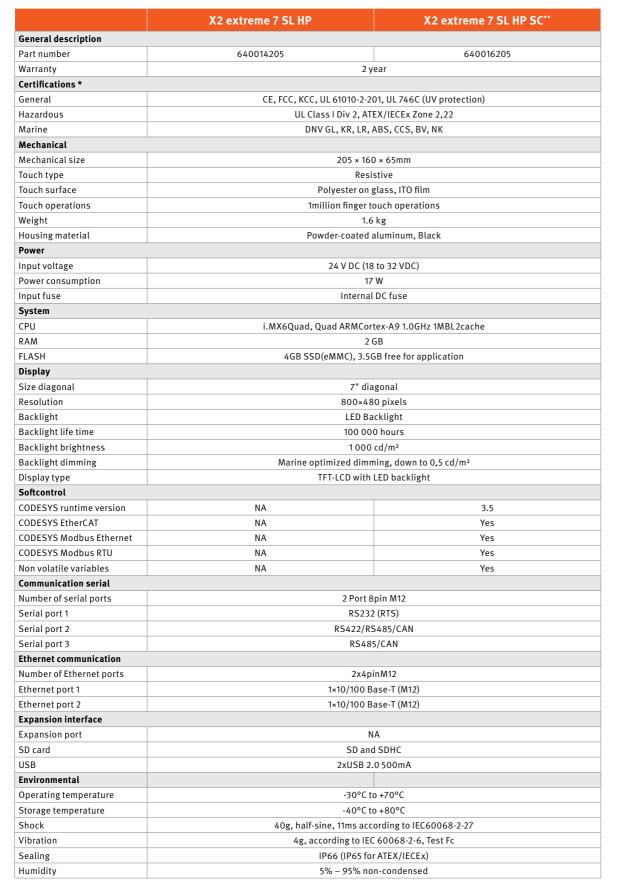
X2 extreme 12	X2 extreme 12 HP (HP SC**)	X2 extreme 15	X2 extreme 15 HP (HP SC**)
(10041205	(1004) 105 (110 CC (1004(105)	(10041(05	(1004/70F (UDGG (1004/00F)
640014305	640014405 (HP SC: 640016405)	640014605 2 y	640014705 (HP SC: 640016805)
CE ECC VCC III 41010 2	201, UL 746C (UV protection)	CE ECC VCC III 61010 2 2	01, UL 746C (UV protection)
			· · · · · · · · · · · · · · · · · · ·
	ATEX/IECEx Zone 2,22		EX/IECEx Zone 2,22
DNV GL, KK, Li	A, ABS, CCS, BV, NK	DINV GL, KR, LR,	ABS, CCS, BV, NK
	42 × 69mm		6 × 73mm
	sistive		stive
· · · · · · · · · · · · · · · · · · ·	n glass, ITO film		glass, ITO film
	r touch operations		ouch operations
	× 226mm		270mm
	.8 kg		l kg
Powder-coate	d aluminum, Black	Powder-coated	aluminum, Black
24 V DC	18 to 32 VDC)	24 V DC (18	3 to 32 VDC)
16W	23W (HP SC: 23W)	18W	28W (HP SC: 28W)
Intern	al DC fuse	Internal	l DC fuse
i.MX6DualLite, Dual Cortex-A9 800MHz 512kBL2cache	i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1MBL2cache	i.MX6DualLite, Dual Cortex-A9 800MHz 512kBL2cache	i.MX6Quad, Quad ARMCortex-A9 1.0GH 1MBL2cache
1 GB	2 GB	1 GB	2 GB (HP SC: 2 GB)
2GB SSD(eMMC), 1.5GB free	4GB SSD(eMMC), 3.5GB free	2GB SSD(eMMC), 1.5GB free	4GB SSD(eMMC), 3.5GB free
for application	for application	for application	for application
12.1"	diagonal	1E A" d	iagonal
	-		
	800 pixels		00 pixels
	Backlight		acklight
	000 hours	50 000 hours	100 000 hours
500 cd/m²	1 000 cd/m²	450 cd/m²	1 000 cd/m²
· · · · · · · · · · · · · · · · · · ·	nming, down to 0,5 cd/m² h LED backlight		ning, down to 0,5 cd/m² LED backlight
TI I-LCD WII	II LLD Backlight	II I-LED WILL	LLD Backlight
NA	NA (HP SC: 3.5)	NA	NA (HP SC: 3.5)
NA	NA (HP SC: Yes)	NA	NA (HP SC: Yes)
NA	NA (HP SC: Yes)	NA	NA (HP SC: Yes)
NA	NA (HP SC: Yes)	NA	NA (HP SC: Yes)
NA	NA (HP SC: Yes)	NA	NA (HP SC: Yes)
1 Port 9pin DSUB	2 Port 9pin DSUB	1 Port 9pin DSUB	2 Port 9pin DSUB
	(RTS/CTS)		RTS/CTS)
NA K5422/	RS485/CAN RS485/CAN	NA	S485/CAN RS485/CAN
	1057 6		1.0 1037 0.111
1	2	1	2
1×10/100 Bas	e-T (shielded RJ45)	1×10/100 Base-	T (shielded RJ45)
NA	1×10/100 Base-T (shielded RJ45)	NA	1×10/100 Base-T (shielded RJ45)
	N.	^	
SD a	nd SDHC	A SD and	d SDHC
	2.0 500mA		.0 500mA
	to +70°C		o +70°C
	to +80°C		0 +80°C
	ccording to IEC60068-2-27	-	ording to IEC60068-2-27
	EC 60068-2-6, Test Fc		C 60068-2-6, Test Fc
	12 and UL Type 4X/12		and UL Type 4X/12
	IP20		20
5% – 95% non-condensed		5% – 95% no	n-condensed

^{*}Certifications pending. Please refer to www.beijerelectronics.com/X2 for detailed status.

^{**}Scheduled for Q3 2018.

High-performance versions (SL HP) and high-performance versions with integrated CODESYS PLC functionality (SL HP SC)







^{**}Scheduled for Q3 2018.





X2 extreme 12 SL HP	X2 extreme 12 SL HP SC**	X2 extreme 15 SL HP	X2 extreme 15 SL HP SC
640014505	64001660E	640014905	44001700F
640014505	640016605 ear	640014805 2 yea	640017005
2 y	eai	Z yea	ıı
CE, FCC, KCC, UL 61010-2-2	01 III 746C (IIV protection)	CE, FCC, KCC, UL 61010-2-201	III 746C (IIV protection)
	EX/IECEx Zone 2,22	UL Class I Div 2, ATEX	·
	ABS, CCS, BV, NK	DNV GL, KR, LR, AE	
2 22,, 2,	,,		-,,
341 × 243	3 × 65mm	410 × 286 ×	65mm
	stive	Resist	ive
Polyester on s	glass, ITO film	Polyester on gla	ass, ITO film
1million finger to	ouch operations	1million finger tou	ch operations
3.4	kg	4.8 k	g
Powder-coated a	aluminum, Black	Powder-coated alu	ıminum, Black
24 V DC (18	3 to 32 VDC)	24 V DC (18 to	32 VDC)
23	: W	28 W	I
Internal	DC fuse	Internal D	C fuse
i.MX6Quad, Quad ARMCor	tex-A9 1.0GHz 1MBL2cache	i.MX6Quad, Quad ARMCorte	x-A9 1.0GHz 1MBL2cache
	GB	2 GE	
4GB SSD(eMMC), 3.50	GB free for application	4GB SSD(eMMC), 3.5GB	free for application
12.1" di	iagonal		ronal
	00 pixels	1280×800	
	cklight	LED Back	·
	0 hours	100 000	
	cd/m²	1 000 cc	
	ning, down to 0,5 cd/m²	Marine optimized dimmir	•
	LED backlight	TFT-LCD with LE	
255		235	
NA	3.5	NA	3.5
NA	Yes	NA	Yes
NA	Yes	NA	Yes
NA	Yes	NA	Yes
NA	Yes	NA	Yes
	pin M12	2 Port 8pi	
	2 (RTS)	RS232 (
	5485/CAN	RS422/RS4	
RS48	5/CAN	RS485/	LAN
2×4n	inM12	2x4pin	M12
	ase-T (M12)	1×10/100 Bas	
1×10/100 B		1×10/100 Bas	
1*10/100 B	use (m12)	1×10/100 Bas	C 1 (H112)
N	IA	NA	
SD and SDHC		SD and S	SDHC
2xUSB 2.0 500mA		2xUSB 2.0	
2.035 2.		2,355 2.10	
-30°C t	0 +70°C	-30°C to -	-70°C
	0 +80°C	-40°C to +	
	ording to IEC60068-2-27	40g, half-sine, 11ms accor	
	60068-2-6, Test Fc	4g, according to IEC 6	
		IP66 (IP65 for A	
IP66 (IP65 for ATEX/IECEx) 5% – 95% non-condensed		5% – 95% non-	

A simple path forward

It's easy to upgrade your existing iX HMI solution

Hardware upgrade to X2 series

Use the migration tables to find the right panel when you want to upgrade your existing iX HMI solution to the X2 panel series.

From iX HMI Industrial to X2 pro

iX HMI panel	X2 panel	Comment
iX T4A	X2 pro 4	-
iX T7A	X2 pro 7	-
iX T10A	X2 pro 10	Different cut-out size
iX T7B	X2 pro 7	-
iX T12B	X2 pro 12	-
iX T15B	X2 pro 15	-
-	X2 pro 21	-

From iX HMI Marine to X2 marine

iX HMI panel	X2 panel	Comment
iX T7AM	X2 marine 7	-
-	X2 marine 7 HB	-
-	X2 marine 7 SC	New 7-inch panel with integrated control
-	X2 marine 7 HB SC	New 7-inch panel with integrated control and high brightness display
iX T15BM	X2 marine 15	-
iX T15BM-HB	X2 marine 15 HB	-
-	X2 marine 15 SC	New 15-inch panel with integrated control
-	X2 marine 15 HB SC	New 15-inch panel with integrated control and high brightness display

From iX HMI SoftControl to X2 control

X2 panel	Comment
X2 control 4	-
X2 control 7	-
X2 control 10	Different cut-out size
X2 control 7	-
X2 control 12	-
X2 control 15	-
֡	X2 control 4 X2 control 7 X2 control 10 X2 control 7 X2 control 12

From iX HMI SoftMotion to X2 motion

iX HMI panel	X2 panel	Comment
-	X2 motion 4	New 4-inch panel with integrated motion and control
iX T7B-SM	X2 motion 7	-
-	X2 motion 10	New 10-inch panel with integrated motion and control
iX T12B-SM	X2 motion 12	-
iX T15B-SM	X2 motion 15	-
-	-	-

From iX HMI TxF-2 series to X2 base

:V IIMI nanal	V2 manual	Commont
iX HMI panel	X2 panel	Comment
iX T5F-2	X2 base 5	-
iX T7F-2	X2 base 7	-
iX T10F-2	X2 base 10	-

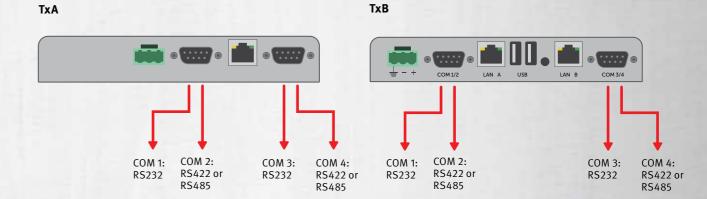
iX application upgrade



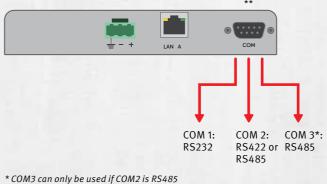
X2 panels are software compatible with iX 2.20 SP2 and forwards. Watch the video on www.beijerelectronics.com/X2 to see how easily you update an existing iX application to an X2 panel.

Continues on next page ...

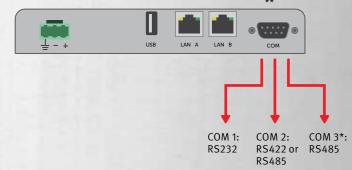
Serial port layout



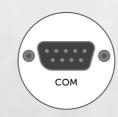
X2 pro 4 and X2 pro 7



X2 pro 10, X2 pro 12 and X2 pro 15



** CAB150 splitter cable provides the connectivity for the three serial ports.



If you use COM3 for RS232 in TxA or TxB:

Change to COM 1

If you use 2 × RS485:

- Change COM4 to COM3
- COM 2 needs to be RS485

* COM3 can only be used if COM2 is RS485

OPC DA communication

- OPC DA communication is not supported in X2 platform
- · Change to OPC UA instead



... continued from previous page.

Hardware upgrade to X2 series

Use the migration tables to find the right panel when you want to upgrade your existing iX HMI solution to the X2 panel series.

From QTERM-Ax to X2 extreme

QTERM panel	X2 panel	Comment
QTERM-A7 iX	X2 extreme 7	Different cut-out size
QTERM-A7 Qlarity	X2 extreme 7	Different cut-out size, new HMI software
QTERM-G72	X2 extreme 7	Different cut-out size, new HMI software
QTERM-A12 iX	X2 extreme 12	Different cut-out size, different aspect ratio
QTERM-A12 Qlarity	X2 extreme 12	Different cut-out size, different aspect ratio, new HMI software

From iX TxBR to X2 extreme

iX TxBR panel	X2 panel	Comment
IX T7BR	X2 extreme 7	-
IX T7BR HB HP	X2 extreme 7 HP	-
-	X2 extreme 7 SL HP	New 7-inch rugged fully sealed high- performance panel
-	X2 extreme 7 HP SC	New 7-inch rugged high-performance panel with integrated control
-	X2 extreme 7 SL HP SC	New 7-inch rugged fully sealed high- performance panel with integrated control
IX T15BR	X2 extreme 15	-
IX T15BR HB HP	X2 extreme 15 HP	-
-	X2 extreme 15 SL HP	New 15-inch rugged fully sealed high- performance panel
-	X2 extreme 15 HP SC	New 15-inch rugged high-performance panel with integrated control
-	X2 extreme 15 SL HP SC	New 15-inch rugged fully sealed high- performance panel with integrated control

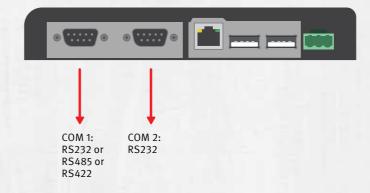
iX application upgrade



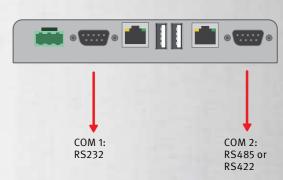
X2 panels are software compatible with iX 2.20 SP2 and forwards. Watch the video on www.beijerelectronics.com/X2 to see how easily you update an existing iX application to an X2 panel.

Serial port layout

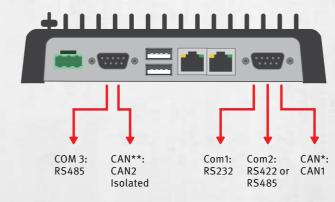
QTERM-Ax



TxBR

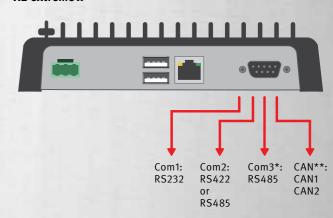


X2 extreme x HP, HC



*CAN1 can only be used if COM2 is not used
**CAN2 can only be used if COM3 is not used

X2 extreme x



- *COM3 can only be used if COM2 is RS485
- **CAN1 can only be used if COM2 is not used
- **CAN2 can only be used if COM3 is not used

OPC DA communication

- OPC DA communication is not supported in X2 platform
- Change to OPC UA instead



About Beijer Electronics

Beijer Electronics is a multinational cross-industry innovator of flexible solutions to control, connect and present data for business-critical applications. Our open software, hardware and IIoT solutions help customers optimize processes and create reliable secure communication, complete with leading-edge user experiences. By making the complex simple, our passion is to work together with our customers to capture the opportunities of tomorrow.

Beijer Electronics is a Beijer Group company. Beijer Group has a sale over 1.2 billion SEK in 2017 and is listed on the NASDAQ OMX Nordic Stockholm Small Cap list under the ticker BELE. www.beijergroup.com

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