



### **X3 extreme 7 P**

7" rugged HMI with iX app

High performant rugged HMI  
 Design optimized for use in rugged environments  
 Cybersecurity design based on IEC 62443-4-2  
 7" 800 × 480 pixel (16:9) TFT-LCD with resistive touchscreen  
 -30°C to 70°C operating temperature  
 -30°C to 80°C storage temperature  
 CE, FCC, KCC, marine certifications; hazardous certifications

### **Facts**

#### General description

Part number	640013915
Warranty	2 year

#### Certifications

General	CE, FCC, KCC
Hazardous	UL C1D2, IECEx (Zone2), ATEX (Zone2), ATEX (Zone22), IECEx (Zone22), CNEX
Marine	DNV, ABS, LR, BV, NK, CCS, KR
Safety	UL 61010-2-201

## Mechanical

Mechanical size	204 x 143 x 63 mm
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	189 x 128 mm
Weight	1,2 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)	typ- 9W / max. 16W
Input fuse	Internal DC fuse, 4 AT

Hardware platform	P
CPU	i.MX 8M Plus Quad Cortex®-A53 1,6GHz
RAM	4 GB
FLASH	32 GB eMMC
Cybersecurity	Cybersecurity design based on IEC 62443-4-2

## Display

Size diagonal	7" diagonal
Resolution	800x480 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	500 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

## 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	1x10/100/1000 Base-T (shielded RJ45)
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)

## Expansion interface

SD card	1 x SD card
USB	1 x USB Host 3.0, 1 x USB Host 2.0

## Environmental

Operating temperature	-30°C to 70°C
Storage temperature	-30°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
Humidity	5% – 95% non-condensed @25°C
Altitude (max)	< 3000m

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 7" 800 × 480 pixel (16:9) TFT-LCD with resistive touchscreen  
 -30°C to 70°C operating temperature  
 -30°C to 80°C storage temperature  
 CE, FCC, KCC, marine certifications; hazardous certifications

### **Facts**

#### General description

Part number	640014115
Warranty	2 year

#### Certifications

General	CE, FCC, KCC
Hazardous	UL C1D2, IECEx (Zone2), ATEX (Zone2), ATEX (Zone22), IECEx (Zone22), CNEX
Marine	DNV, ABS, LR, BV, NK, CCS, KR
Safety	UL 61010-2-201

## Mechanical

Mechanical size	204 x 143 x 63 mm
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	189 x 128 mm
Weight	1,2 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)	typ- 10W / max. 18W
Input fuse	Internal DC fuse, 4 AT

Hardware platform	P
CPU	i.MX 8M Plus Quad Cortex®-A53 1,6GHz
RAM	4 GB
FLASH	32 GB eMMC
Cybersecurity	Cybersecurity design based on IEC 62443-4-2

## Display

Size diagonal	7" diagonal
Resolution	800x480 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	1000 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

## 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	1x10/100/1000 Base-T (shielded RJ45)
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)

## Expansion interface

SD card	1 x SD card
USB	1 x USB Host 3.0, 1 x USB Host 2.0

## Environmental

Operating temperature	-30°C to 70°C
Storage temperature	-30°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
Humidity	5% – 95% non-condensed @25°C
Altitude (max)	< 3000m

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### **X3 extreme 12 P**

12" rugged HMI with iX app

High performant rugged HMI  
 Design optimized for use in rugged environments  
 Cybersecurity design based on IEC 62443-4-2  
 12,1" 1280 × 800 pixel (16:10) TFT-LCD with resistive touchscreen  
 -30°C to 70°C operating temperature  
 -30°C to 80°C storage temperature  
 CE, FCC, KCC, marine certifications; hazardous certifications

### **Facts**

#### General description

Part number	640014315
Warranty	2 year

#### Certifications

General	CE, FCC, KCC
Hazardous	UL C1D2, IECEx (Zone2), ATEX (Zone2), ATEX (Zone22), IECEx (Zone22), CNEX
Marine	DNV, ABS, LR, BV, NK, CCS, KR
Safety	UL 61010-2-201

## Mechanical

Mechanical size	340 x 242 x 70 mm
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	324 x 226 mm
Weight	2,7 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)	typ- 13W / max. 20W
Input fuse	Internal DC fuse, 4 AT

Hardware platform	P
CPU	i.MX 8M Plus Quad Cortex®-A53 1,6GHz
RAM	4 GB
FLASH	32 GB eMMC
Cybersecurity	Cybersecurity design based on IEC 62443-4-2

## Display

Size diagonal	12,1" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	400 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

## 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	1x10/100/1000 Base-T (shielded RJ45)
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)

## Expansion interface

SD card	1 x SD card
USB	1 x USB Host 3.0, 1 x USB Host 2.0

## Environmental

Operating temperature	-30°C to 70°C
Storage temperature	-30°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
Humidity	5% – 95% non-condensed @25°C
Altitude (max)	< 3000m

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### **X3 extreme 12 P HB**

12" rugged high brightness HMI with iX app

High performant rugged HMI  
 Design optimized for use in rugged environments  
 Cybersecurity design based on IEC 62443-4-2  
 12,1" 1280 × 800 pixel (16:10) TFT-LCD with resistive touchscreen  
 -30°C to 70°C operating temperature  
 -30°C to 80°C storage temperature  
 CE, FCC, KCC, marine certifications; hazardous certifications

### **Facts**

#### General description

Part number	640014415
Warranty	2 year

#### Certifications

General	CE, FCC, KCC
Hazardous	UL C1D2, IECEx (Zone2), ATEX (Zone2), ATEX (Zone22), IECEx (Zone22), CNEX
Marine	DNV, ABS, LR, BV, NK, CCS, KR
Safety	UL 61010-2-201

## Mechanical

Mechanical size	340 x 242 x 70 mm
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	324 x 226 mm
Weight	2,7 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)	typ. 20W / max. 27W
Input fuse	Internal DC fuse, 4 AT

Hardware platform	P
CPU	i.MX 8M Plus Quad Cortex®-A53 1,6GHz
RAM	4 GB
FLASH	32 GB eMMC
Cybersecurity	Cybersecurity design based on IEC 62443-4-2

## Display

Size diagonal	12,1" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	1000 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

## 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	1x10/100/1000 Base-T (shielded RJ45)
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)

## Expansion interface

SD card	1 x SD card
USB	1 x USB Host 3.0, 1 x USB Host 2.0

## Environmental

Operating temperature	-30°C to 70°C
Storage temperature	-30°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
Humidity	5% – 95% non-condensed @25°C
Altitude (max)	< 3000m

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## X3 extreme 15 P

15" rugged HMI with iX app

High performant rugged HMI  
 Design optimized for use in rugged environments  
 Cybersecurity design based on IEC 62443-4-2  
 15,4" 1280 × 800 pixel (16:10) TFT-LCD with resistive touchscreen  
 -30°C to 70°C operating temperature  
 -30°C to 80°C storage temperature  
 CE, FCC, KCC, marine certifications; hazardous certifications

## Facts

### General description

Part number	640014615
Warranty	2 year

### Certifications

General	CE, FCC, KCC
Hazardous	UL C1D2, IECEx (Zone2), ATEX (Zone2), ATEX (Zone22), IECEx (Zone22), CNEX
Marine	DNV, ABS, LR, BV, NK, CCS, KR
Safety	UL 61010-2-201

## Mechanical

Mechanical size	410 x 286 x 74 mm
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	394 x 270 mm
Weight	3,7 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)	typ- 21W / max. 26W
Input fuse	Internal DC fuse, 4 AT

Hardware platform	P
CPU	i.MX 8M Plus Quad Cortex®-A53 1,6GHz
RAM	4 GB
FLASH	32 GB eMMC
Cybersecurity	Cybersecurity design based on IEC 62443-4-2

## Display

Size diagonal	15.4" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	450 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

## 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	1x10/100/1000 Base-T (shielded RJ45)
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)

## Expansion interface

SD card	1 x SD card
USB	1 x USB Host 3.0, 1 x USB Host 2.0

## Environmental

Operating temperature	-30°C to 70°C
Storage temperature	-30°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
Humidity	5% – 95% non-condensed @25°C
Altitude (max)	< 3000m

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### **X3 extreme 15 P HB**

15" rugged high brightness HMI with iX app

- High performant rugged HMI
- Design optimized for use in rugged environments
- Cybersecurity design based on IEC 62443-4-2
- 15,4" 1280 × 800 pixel (16:10) TFT-LCD with resistive touchscreen
- 30°C to 70°C operating temperature
- 30°C to 80°C storage temperature
- CE, FCC, KCC, marine certifications; hazardous certifications

### **Facts**

#### General description

Part number	640014715
Warranty	2 year

#### Certifications

General	CE, FCC, KCC
Hazardous	UL C1D2, IECEx (Zone2), ATEX (Zone2), ATEX (Zone22), IECEx (Zone22), CNEX
Marine	DNV, ABS, LR, BV, NK, CCS, KR
Safety	UL 61010-2-201

## Mechanical

Mechanical size	410 x 286 x 74 mm
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	394 x 270 mm
Weight	3,7 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)	typ- 30W / max. 35W
Input fuse	Internal DC fuse, 4 AT

Hardware platform	P
CPU	i.MX 8M Plus Quad Cortex®-A53 1,6GHZ
RAM	4 GB
FLASH	32 GB eMMC
Cybersecurity	Cybersecurity design based on IEC 62443-4-2

## Display

Size diagonal	15.4" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	1000 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

## 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	1x10/100/1000 Base-T (shielded RJ45)
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)

## Expansion interface

SD card	1 x SD card
USB	1 x USB Host 3.0, 1 x USB Host 2.0

## Environmental

Operating temperature	-30°C to 70°C
Storage temperature	-30°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
Humidity	5% – 95% non-condensed @25°C
Altitude (max)	< 3000m

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