



## X3 extreme ultra 12 P HB CT

12" rugged HMI with capacitive touch screen and iX app

Verified through testing for  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  and 7.7 G vibration, exceeding the specified temperature and vibration range of the product.

Aligned with MIL-STD-810H requirements

Cybersecurity design based on IEC 62443-4-2

12,1" 1280 × 800 pixel (16:10) TFT-LCD with capacitive touch screen

High performant rugged HMI

Industrial, marine and hazardous certifications

## Facts

### General description

Part number	640003615
Life cycle status	Not Released
Warranty	Up to 2 years

### Certifications

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

## Mechanical

Mechanical size	341 x 242 x 70 mm
Mounting option	Panel Mount / VESA 75 x75
Touch type	Capacitive
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- 30W / max. 35W
Input fuse	Internal DC fuse, 4 AT

## System

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 62443-4-7

## 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 PCAP touch
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

## 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 USB Host 3.0, 1 x USB Host 2.0
USB	1 x USB Host 3.0, 1 x USB Host 2.0

## 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 IACS E10
Sealing front	IP66
Humidity	5% – 95% non-condensed @25°C
Altitude (max)	< 3000m

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