X2 extreme 12 HP web

12" Rugged web client HMI

1280 × 800 pixel (16:10) TFT-LCD touch screen
High brightness TFT display
8GB EMMC
Ethernet 2x100 Mbit
-30°C to +70°C operating temperature
DNV GL, KR, LR, ABS, CCS, BV, NK marine approvals
CE, FCC, KCC, UL Class I Div 2, ATEX/IECEx Zone 2,22

Facts

General description

Part number	640020805
Life cycle status	Active
Warranty	Up to 2 years

Certifications

General	CE, FCC, KCC, UL 61010-2-201, UL 746C
Hazardous	UL C1D2, ATEX (Zone2), ATEX (Zone22), IECEx (Zone2), IECEx (Zone22)
Marine	KR, LR, ABS, CCS, BV, NK, DNV GL

Mechanical

Mechanical size	340 x 242 x 69mm
Mounting option	Panel Mount
Number of touches	1million finger touch operations
Touch type	Resistive
Cut-out size	324 x 226mm
Weight	2.8 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)	23 W
Input fuse	Internal DC fuse

System

Hardware platform	X2 extreme
CPU	i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1MBL2cache
RAM	2 GB
FLASH	8GB EMMC

Software

Operating system	Linux
Web browser	Chromium in Kiosk mode

Display

Size diagonal	12.1" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	100000 hours
Backlight brightness	1000 cd/m2
Backlight dimming	Dimming in system menu
Display type	TFT-LCD with LED backlight

Serial communication

Number of serial ports	2 Port 9pin DSUB
Serial port 1	Not in use
Serial port 2	Not in use
Serial port 3	Not in use

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)

Communication CAN

Number of CAN ports	1

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

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