



## Facts

# General description

Part number	640014405
Life cycle status	Active
Warranty	2 year

### Certifications

General	CE, FCC, KCC, UL 61010-2-201, UL 746C
Hazardous	ULC1D2, ATEX (Zone2), ATEX (Zone22), IECEx
	(Zone2), IECEx (Zone22)
Marine	KR. LR. ABS. CCS. BV. NK. DNV GL. RS

### 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 conformwith 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	23 W
consumption	

Power			23 W
consumption			
(max)			
Input fuse		Interr	nal DC fuse

### System

CPU	i.MX6Quad, Quad ARMCortex-A9 1.0GHz
	1MBL2cache
RAM	2 GB
FLASH	4GB SSD(eMMC), 3.5GB free for application

#### X2 extreme 12 HP

# 12" Rugged HMI with iX runtime

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

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

### Communication CAN

Number of CAN ports	2
CAN port 1	1 Mbit
CAN port 2	1 Mbit

# Expansion interface

SD and SDHC	
2xUSB 2.0 500mA	

#### Environmental

-30°C to +70°C	Operating temperature
-40°C to +80°C	Storage temperature
40g, half-sine, 11ms according to IEC60068-2-27	Shock
4g, according to IEC 60068-2-6, Test Fc	Vibration
IP66, NEMA 4X/ 12 and UL Type 4X/ 12	Sealing front
IP20	Sealing back
5% – 95% non-condensed	Humidity
< 3000m	Altitude (max)

12.09.2023, 15:50 1 von 4

Display	
Size diagonal	12.1" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	70000 hours
Backlight brightness	1000 cd/m2
Backlight dimming	Marine optimized dimming
Display type	TFT-LCD with LED backlight

# Smart Engineering Resources

2 von 4 12.09.2023, 15:50