



## X2 control 12

12" HMI with iX runtime and CODESYS soft control

1280 × 800 pixel (16:10) TFT-LCD touch screen

1.5 GB application memory

Ethernet 2x100 Mbit

EtherCAT as standard

CODESYS control integrated

CE, FCC, KCC, UL approvals

DNV GL, KR, LR, ABS, CCS, BV, NK, RS marine approvals

### Facts

#### General description

Part number	640002205
Life cycle status	Active
Warranty	2 year

#### Certifications

General	CE, FCC, KCC, UL 61010-2-201
Marine	KR, LR, ABS, BV, CCS, NK, DNV GL, RS
Safety	UL 61010-1, UL 61010-2-201, CAN/CSA-C22.2 No. 61010-1, CAN/CSA-C22.2 No. 61010-2-201

#### Mechanical

Mechanical size	340 x 242 x 57mm
Mounting option	Panel Mount, VESA 75 x 75
Number of touches	1 million finger touch operations
Touch type	Resistive
Cut-out size	324 x 226mm
Weight	2.6 kg
Housing material	Powder-coated aluminum, Gray

#### Power

Input voltage	24 V DC (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 II power supplies.
Power consumption (max)	28.8W
Input fuse	Internal DC fuse

#### Digital IO

Digital output	2xDO Solid state relay, 0.5A@24VDC
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#### Serial communication

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	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	0.5 MBit
CAN port 2	0.5 MBit

#### Expansion interface

Expansion port	Yes, ciX expansion module
SD card	SD and SDHC
USB	2xUSB 2.0 500mA

## System

Hardware platform	X2
CPU	i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1M BL2cache
RAM	2 GB
FLASH	2GB SSD(eMMC), 1.5GB free for application

## Display

Size diagonal	12.1" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	400 cd/m2
Backlight dimming	Industrial Dimming
Display type	TFT-LCD with LED backlight

## Softcontrol

Codesys runtime version	3.5
Codesys EtherCAT	Yes
Codesys Modbus Ethernet	Yes
Codesys Modbus RTU	Yes
CANopen	Yes
Non volatile variables	64 KB

## Environmental

Operating temperature	-10°C to +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	IP65, NEMA 4X/ 12 and UL 50E Type 4X/ 12
Sealing back	IP20
Humidity	5% – 85% non-condensed