



**X2 pro 12**  
**12" HMI with iX runtime**

1280 x 800 pixel (16:10)  
TFT-LCD touch screen  
1.5 GB application memory  
Ethernet 2x100 Mbit  
-10°C to +60°C operating temperature  
CE, FCC, KCC, UL approvals  
DNV GL, KR, LR, ABS, CCS, BV, NK, RS marine approvals

**Facts**

**General description**

Part number	640000205
Life cycle status	Active
Warranty	2 year

**Certifications**

General	CE, FCC, KCC
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
	Panel Mount, VESA 75 x 75
	1million 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 conformwith the requirements according to IEC 60950 and IEC 61558-2-4.UL and cUL: The power supplymust conformwith the requirements for class II power supplies.
Power consumption (max)	28.8W
Input fuse	Internal DC fuse
CPU	i.MX6DualLite, Dual Cortex-A9 1.0GHz 512kBL2cache
RAM	1 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

**Drivers**

**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)
	1
	0.5 MBit

**Expansion interface**

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

**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
Altitude (max)	< 3000m

ABB - COMLI Master (5.7.2)  
ABB - COMLI Slave (4.11.0)  
ABB - TotalFlow (5.2.1)  
Allen Bradley - ControlLogix Ethernet IP (4.24.1)  
Allen Bradley - DF1 (5.8.0)  
Allen Bradley - DH485 (4.6.2)  
Allen Bradley - MicroLogix Ethernet (5.6.0)  
Allen Bradley - SLC5/PLC5 Ethernet (5.4.0)  
Altus - Alnet I (5.8.0)  
Animatics - SmartMotor (5.2.1)  
Beckhoff - ADS (5.12.1)  
Beckhoff - ADS Symbolic (4.7.0)  
Beijer Electronics - iX Demo (4.4.0)  
Bernecker + Rainer - Mininet (5.6.0)  
BoschRexroth - IndraDrive C (5.2.1)  
CAN - FreeCan (J1939/NMEA2000) (5.3.5)  
CAN - CANopen (5.4.0)  
CODESYS - ARTI v2.x, v3.x (4.8.0)  
CODESYS - SoftControl Direct Access (4.4.0)  
Cognex - InSight (5.2.2)  
Control Techniques - Unidrive (5.3.1)  
CTC - Serial Binary (5.4.2)  
Delta - PLC Modbus ASCII (5.6.0)  
Emerson - DNP3 (4.8.2)  
Emerson - Modbus Master RTU/ASCII (5.4.0)  
Eurotherm - Easy Serial 631 (5.1.1)  
Fatek - Facon (5.10.0)  
Galil - DMC (5.2.2)  
GE Fanuc - Ethernet SRTP (5.5.0)  
GE Fanuc - SNPX (5.6.1)  
Gidding & Lewis - Motion control (5.4.0)  
IAI - Xsel (5.4.1)  
Idec - Computer Link (5.8.0)  
Johnson Control - JCONTROL (5.2.1)  
KEB - COMBIVERT (5.4.0)  
Keyence - KV-series (5.6.0)  
Koyo - DirectNET (5.5.0)  
Koyo - K Sequence (5.3.1)

Lenze - LECOM A/B (5.6.0)  
LS Industrial System - Glofa (5.3.0)  
LS Industrial System - Master K (5.4.0)  
Matsushita - MEWTOCOL-COM (5.9.2)  
Mitsubishi Electric - Alpha2 (5.7.0)  
Mitsubishi Electric - A-series (C24) (5.6.0)  
Mitsubishi Electric - A-series (CPU) (5.10.0)  
Mitsubishi Electric - A-series (E71) (5.4.0)  
Mitsubishi Electric - Freqrol FR-A PLC (5.8.2)  
Mitsubishi Electric - FX Series ADP/BD (5.10.0)  
Mitsubishi Electric - FX Series ENET (5.4.1)  
Mitsubishi Electric - FX Series Serial (5.16.0)  
Mitsubishi Electric - MC Protocol (5.11.4)  
Mitsubishi Electric - MR-J2/MR-J3-T MELSERVO (5.9.0)  
Mitsubishi Electric - QnA/Qnn Serial (5.10.0)  
Mitsubishi Electric - QnA/Qnn (C24) (5.5.0)  
Mitsubishi Electric - Q-Series Ethernet (E71) (5.5.0)  
Modicon - Modbus Master (5.19.4)  
Modicon - Modbus Slave RTU/TCP (4.20.2)  
NEMA0183 - NEMA 0183 (4.6.0)  
Omron - Ethernet IP (4.3.3)  
Omron - FINS (5.9.5)  
Omron - Host Link (5.6.0)  
Regin - EXOline (5.3.2)  
Profibus - Profibus DP (5.5.1)  
SAIA - S-BUS Serial/Ethernet (5.7.0)  
Schneider Electric - Modbus (5.3.0)  
Schneider Electric - TSX Uni-Telway (4.5.3)  
Siemens - S5 PG/AS511 (5.4.0)  
Siemens - S7 200 PPI (5.8.5)  
Siemens - S7 over TCP (S7-200/300/400/1200/1500) (4.18.0)  
Siemens - MPI (HMI Adapter) (5.7.0)  
Siemens - MPI (CIX) (5.3.0)  
WAGO - Modbus TCP (5.10.0)  
Vigor - M/VB-Series (5.6.0)  
Yamaha - VIP (5.2.1)  
Yaskawa - Memobus Master (5.7.0)  
Yokogawa - FA-M3 (5.6.0)