



## Facts

### General description

|             |           |
|-------------|-----------|
| Part number | 640000205 |
| Part status | Active    |
| Warranty    | 2 year    |

### Certifications

|         |                              |
|---------|------------------------------|
| General | CE, FCC, KCC, UL 61010-2-201 |
| Marine  | DNV, KR, GL, LR, ABS, CCS    |

### Mechanical

|                   |                                  |
|-------------------|----------------------------------|
| Mechanical size   | 340 x 242 x 57mm                 |
| Mounting option   | Panel Mount, VESA 75 x 75        |
| Number of touches | 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                                                                                                                                                                                                 |

### System

|       |                                                   |
|-------|---------------------------------------------------|
| CPU   | i.MX6DualLite, Dual Cortex-A9 1.0GHz 512kBL2cache |
| RAM   | 1 GB                                              |
| FLASH | 2GB SSD(eMMC), 1.5GB free for application         |

## Drivers

## X2 pro 12

### 12" HMI with iX runtime

1280 × 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, KR, GL, LR, ABS, CCS marine approvals

### 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 |

### Communication serial

|                        |                                |
|------------------------|--------------------------------|
| 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) |

### 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 Type 4X/ 12            |
| Sealing back          | IP20                                            |
| Humidity              | 5% – 85% non-condensed                          |

|                                                   |
|---------------------------------------------------|
| 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 - 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 SRTCP (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)                                  |

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