



Facts

General description

Part number	640002205
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 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

System

CPU	i.MX6Quad, Quad ARM Cortex-A9 1.0GHz 1MB L2 cache
RAM	2 GB
FLASH	2GB SSD(eMMC), 1.5GB free for application

Display

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

Softcontrol

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

Digital IO

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

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

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 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)

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