X2 control 15

15" 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 marine approvals

Facts

General description

Part number	640002405
Life cycle status	Active
Warranty	Up to 2 years

Certifications

General	CE, FCC, KCC, UL 61010-2-201
Marine	KR, LR, ABS, BV, CCS, NK, DNV GL
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	410 x 286 x 61mm
Mounting option	Panel Mount, VESA 75 x 75
Number of touches	1million finger touch operations
Touch type	Resistive
Cut-out size	394 x 270mm
Weight	3.85 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)	31.2W
Input fuse	Internal DC fuse

System

Hardware platform	X2
CPU	i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1MBL2cache
RAM	2 GB
FLASH	2GB SSD(eMMC), 1.5GB free for application

Display

Size diagonal	15.4" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	450 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

Digtal IO

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

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

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

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Visiting address HQ: Stora Varvsgatan 13a

SE - 211 75 Malmoe, SWEDEN

+46 40 35 86 00 (tel:+46 40 35 86 00)

info@beijerelectronics.com (mailto:info@beijerelectronics.com)