



X2 extreme 7 SL HP SC 7" Rugged sealed HMI with iX runtime/CODESYS

800 × 480 pixel (16:9) TFT-LCD touch screen
High brightness display
CODESYS control integrated
M12 connectors - IP66
-30°C to +70°C operating temperature
DNV, KR, GL, LR, ABS, CCS, BV marine approvals
UL Class I Div 2, ATEX/IECEX Zone 2,22

Facts

General description

| | |
|-------------|-----------|
| Part number | 640016205 |
| Part status | Active |
| Warranty | 2 year |

Certifications

| | |
|-----------|--|
| General | CE, FCC, KCC, UL 61010-2-201 |
| Hazardous | ULC1D2, ATEX (Zone2), ATEX (Zone22), IEXEx (Zone2), IEXEx (Zone22) |
| Marine | DNV, KR, GL, LR, ABS, CCS, BV |

Mechanical

| | |
|-------------------|----------------------------------|
| Mechanical size | 205 x 160 x 65mm |
| Mounting option | VESA 75 x 75 |
| Number of touches | 1million finger touch operations |
| Touch type | Resistive |
| Cut-out size | N/A |
| Weight | 1.6 kg |
| Housing material | Powder-coated aluminum, Black |

Power

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|-------------------------|--|
| 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) | 20 W |
| Input fuse | Internal DC fuse |

System

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|-------|--|
| CPU | i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1MBL2cache |
| RAM | 2 GB |
| FLASH | 4GB SSD(eMMC), 3.5GB free for application |

Display

Softcontrol

| | |
|-------------------------|-----|
| Codesys runtime version | 3.5 |
| Codesys EtherCAT | Yes |
| Codesys Modbus Ethernet | Yes |
| Codesys Modbus RTU | Yes |
| Non volatile variables | Yes |

Communication serial

| | |
|------------------------|-------------------|
| Number of serial ports | 2 Port 8pin M12 |
| Serial port 1 | RS 232 |
| Serial port 2 | RS422 (RTS)/RS485 |
| Serial port 3 | RS 485 |

Ethernet communication

| | |
|--------------------------|-----------------------------|
| Number of ethernet ports | 2 |
| Ethernet port 1 | 1x10/100 Base-T (4 pin M12) |
| Ethernet port 2 | 1x10/100 Base-T (4 pin M12) |

Expansion interface

| | |
|---------|-----------------|
| SD card | SD and SDHC |
| USB | 2xUSB 2.0 500mA |

Environmental

| | |
|-----------------------|---|
| Operating temperature | -30°C to +70°C |
| Storage temperature | -40°C to +80°C |
| Shock | 40g, half-sine, 11ms according to IEC60068-2-27 |
| Vibration | 4g, according to IEC 60068-2-6, Test Fc |
| Sealing front | IP65 |
| Sealing back | IP65 |
| Humidity | 5% – 95% non-condensed |

| | |
|----------------------|---|
| Size diagonal | 7" diagonal |
| Resolution | 800x480 pixels |
| Backlight | LED Backlight |
| Backlight life time | 100000 hours |
| Backlight brightness | 1000 cd/m2 |
| Backlight dimming | Marine optimized dimming, down to 0,5 cd/m2 |
| Display type | TFT-LCD with LED backlight |

Drivers

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|---|
| 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) |
| 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) |

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|---|
| 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) |
| SAIA - S-BUS Serial/Ethernet (5.7.0) |
| Schneider Electric - Modbus (5.3.0) |
| Schneider Electric - TSX Uni-Telway (4.5.3) |
| 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) |
| 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) |

BASIC JAPAN

Basic Japan株式会社 Sugunami Tokyo, Japan
Phone: 03-5335-7651
E-mail: mail@basicjp.com
URL: www.basicjp.com