



BoX2 extreme SC

Rugged protocol converter/IIoT gateway/edge controller

Protocol conversion
 Cloud connectivity
 HMI and web server
 Integrated CODESYS control
 Local data base storage, alarm servers, data exchange, reporting, C# scripting
 IP65, UL Type 1
 -30 °C to +70 °C

Facts

General description

| | |
|-------------|---------------|
| Part number | 100-0981 |
| Warranty | Up to 2 years |

Features

| | |
|----------------------------|-----|
| Protocol conversion | Yes |
| Cloud connectivity | Yes |
| HMI web server | Yes |
| Integrated CODESYS control | Yes |
| Local data base storage | Yes |
| C# scripting | Yes |
| Alarm server | Yes |

Certifications

| | |
|-----------|---|
| General | CE, FCC, KCC |
| Hazardous | UL C1D2, ATEX (Zone2), ATEX (Zone22), IECEx (Zone2), IECEx (Zone22) |
| Marine | LR, ABS, BV, DNV GL |
| Safety | UL 61010-2-201 |

Mechanical

| | |
|--|------------------------------------|
| | DIN rail/mounting plate/Vesa mount |
|--|------------------------------------|

Power

| | |
|-------------------------|-------------------|
| Input voltage | 24VDC (18-32V DC) |
| Power consumption (max) | 8W |
| Input fuse | 4 AT |

| | |
|-------------------|--|
| Hardware platform | BoX2 extreme |
| CPU | i.MX6Quad, Quad ARMCortex-A9 1.0GHz 1MBL2cache |
| RAM | 2 GB |
| FLASH | 2GB SSD(eMMC), 1.5GB free for application |

Softcontrol

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

Serial communication

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

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, UL Type 1 |
| Sealing back | IP65, UL Type 1 |
| Humidity | 5% – 95% non-condensed |
| Altitude (max) | < 3000m |

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