



BoX2 pro SC

High-performance protocol converter/IloT 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
IP20

Facts

General description

Part number	100-0980
Life cycle status	Active
Warranty	2 year

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	ULC1D2
Marine	LR, ABS, BV, DNV GL
Safety	UL 61010-2-201

Mechanical

DIN rail/mounting plate

Power

Input voltage	24VDC (18-32V DC)
Power consumption (max)	5W
Input fuse	3,14 AT

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

Drivers

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	1 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422/485
Serial port 3	RS 485

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)
	1
	0.5 MBit

Expansion interface

SD card	SD and SDHC
USB	1xUSB 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	IP20
Sealing back	IP20
Humidity	5% – 85% non-condensed
Altitude (max)	< 3000m

 ABB - COMLI Master (5.7.2)

 ABB - COMLI Slave (4.11.0)

 ABB - TotalFlow (5.2.1)

 Lenze - LECOM A/B (5.6.0)

 LS Industrial System - Glofa (5.3.0)

 LS Industrial System - Master K (5.4.0)

More drivers ▼

⚙️ Smart Engineering Resources

 📄 [Fast logging - CODESYS library](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/67/logging---codesys-library)

 📄 [Excel basic process data template](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/basic-process-data-template)

 📄 [Multiple alarm handling - CODESYS library](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/67/alarm-handling---codesys-library)

 📄 [Get NIC information - CODESYS library](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/nic-information---codesys-library)

 📄 [CSV read delimit - CODESYS library](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/67/delimit---codesys-library)

 📄 [OEE calculation example](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/calculation-example)

 📄 [Conveyor product tracking - CODESYS library](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/67/product-tracking---codesys-library)

 📄 [Vessel Quick View - iX sample](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/quick-view---ix-sample)

 📄 [BoX2 pro motion helper functions - CODESYS library](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/70/pro-motion-helper-functions---codesys-library)

 📄 [NMEA 0183 listener - CODESYS library](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/0183-listener---codesys-library)

 📄 [Power BI basic process data template](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/99/bi-basic-process-data-template)

 📄 [Serial comms FBs - CODESYS library](#)

 (https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/comms-fbs---codesys-library)