



## BoX2 pro motion High-performance CODESYS motion controller

EtherCAT  
Distributed clock  
CODESYS CNC-license (for circular interpolation, axis groups etc.)  
No iX functionality. No 2nd fieldbus, limited to EtherCAT only  
IP20

### Facts

#### General description

Part number	100-1155
Life cycle status	Active
Warranty	2 year

#### Certifications

General	CE, FCC, KCC
Marine	LR, ABS, BV, DNV GL
Safety	UL 61010-2-201

#### Mechanical

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

#### Softcontrol

Codesys runtime version	3.5.10.10
Codesys EtherCAT	Yes
Codesys Modbus Ethernet	No
Codesys Modbus RTU	No
CANopen	No
Non volatile variables	Yes

#### Ethernet communication

Number of Ethernet ports	2
Ethernet port 1	EtherCAT Rj45
Ethernet port 2	1x10/100 Base-T (shielded RJ45)

#### 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

### Smart Engineering Resources

📄 [Fast logging - CODESYS library](#)

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/basic-process-data-template](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/basic-process-data-template))

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

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/alarm-handling---codesys-library](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/alarm-handling---codesys-library))

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

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/delimit---codesys-library](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/delimit---codesys-library))

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

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/product-tracking---codesys-library](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/product-tracking---codesys-library))

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

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/706/pro-motion-helper-functions---codesys-library](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/706/pro-motion-helper-functions---codesys-library))

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

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/996/bi-basic-process-data-template](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/996/bi-basic-process-data-template))

📄 [Excel basic process data template](#)

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/basic-process-data-template](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/basic-process-data-template))

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

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/nic-information---codesys-library](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/nic-information---codesys-library))

📄 [OEE calculation example](#)

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/calculation-example](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/calculation-example))

📄 [Vessel Quick View - iX sample](#)

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/quick-view---ix-sample](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/quick-view---ix-sample))

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

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/0183-listener---codesys-library](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/0183-listener---codesys-library))

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

([https://smartstore.beijerelectronics.com/en/Smart\\_Engineering\\_Resources/677/comms-fbs---codesys-library](https://smartstore.beijerelectronics.com/en/Smart_Engineering_Resources/677/comms-fbs---codesys-library))