

Ixxat Mobilizer Pro 822 EtherCAT

Item number: 1.01.0143.08221

The Ixxat Mobilizer Pro 822/EtherCAT is a powerful and versatile solution for automotive uses, integrating Automotive Ethernet, FlexRay, LIN, Sent, K-Line, EtherCAT and eight CAN FD interfaces. It's ideal for logging, gateway, and rest bus simulation tasks – easily configurable with the Ixxat Advanced Configuration Tool (ACT).



Configurable automotive platform (2 x Automotive Ethernet, 1 x FlexRay, 8 x CAN/CAN FD, 2 x LIN, and more)

Features and benefits

✓ **Go-to solution for demanding network requirements**

The Mobilizer enables easy integration of multiple bus systems into a single, compact device. This is essential for e-mobility projects and complex industrial applications.

✓ **Embedded platform with own processing power**

All applications run on the device, a PC is only needed for configuration or stimulation/visualization of data, as the actual intelligence is outsourced to the embedded platform.

✓ **Improved data management for efficient engineering**

The Ixxat Mobilizer series streamlines data management and protocol handling, optimized for automotive testing, logging and gateway operations. Ensuring easy integration and reliable performance.

✓ **Multi-connectivity with various interfaces**

Additional interfaces included: 8 x CAN/CAN FD, 2 x Automotive Ethernet 100/1000 Base-T1, 1 x FlexRay, 2 x LIN, 1 x Ethernet (10/100/1000 Base-TX), 6 x Digital in/out (A/E), 4 x Analog in, 2 x Analog Out, 2 x Sent, USB 3.0 device and USB 2.0 host and a SDXC slot.

✓ **Quick and easy configuration through ACT support**

The platform is supported by the Ixxat ACT (Advanced Configuration Tool), a Windows-based tool to easily configure the device via drag and drop. Most use cases can be solved by using ACT Freeware.

✓ **Overvoltage protection**

Galvanic isolation safeguards against overvoltage and protects from potential electrical damage.

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General

Related Accessories	1.04.0143.00003,1.04.0143.00002,1.04.0143.00001
Net Weight (g)	740
Packed Weight (g)	740
Operating Temperature °C Min	-40
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	10 to 95 %, non-condensing
Current Consumption Type Value at Vcc Nom (mA)	620 mA (12 V DC)
Input Voltage (V)	6 to 36 V DC
Power Connector	3-pole
Isolation	D-Sub connectors: 1 kV DC for 1 second, 500 V AC/60Hz for 1 minute; LAN connection: 1.5 kVrms/60Hz, 2.25 kV DC for 1 minute; EtherCAT connection: 1 kVrms for 1 minute
Housing Materials	Aluminium
Packaging Material	Cardboard

Identification and Status

Product ID	1.01.0143.08221
Country of Origin	Germany
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99



Physical Features

Connectors / Input / Output	8 x D-Sub 9 connectors, 2 x USB type A ports, 1 x USB type C port, 3 x RJ45 connectors, 2 x IEC63171-2 connectors (Automotive Ethernet), 1 x Phoenix MC 1.5-3-STF-3.81 BK (power)
Contains Battery	No

CAN Features

CAN Mode	CAN high-speed (ISO 11898-2)
CAN Baud Rate	up to 1 Mbit/s

CAN FD Features

CAN FD Mode	ISO CAN FD (ISO 11898-1: 2015)
CAN FD Transceiver	TCAN1462
CAN FD Baud Rate	up to 8 Mbit/s

LIN Features

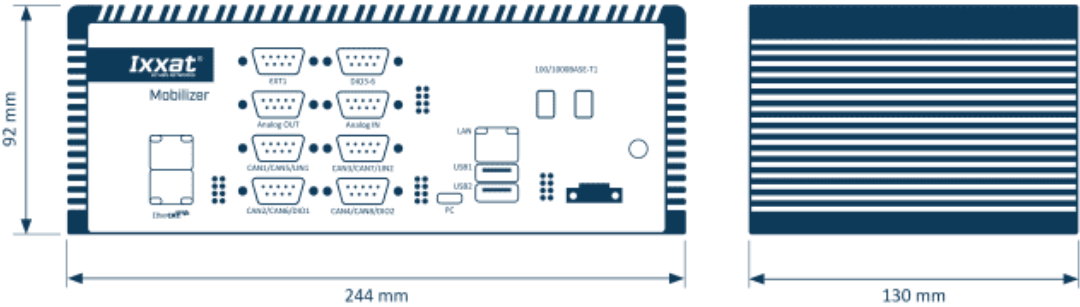
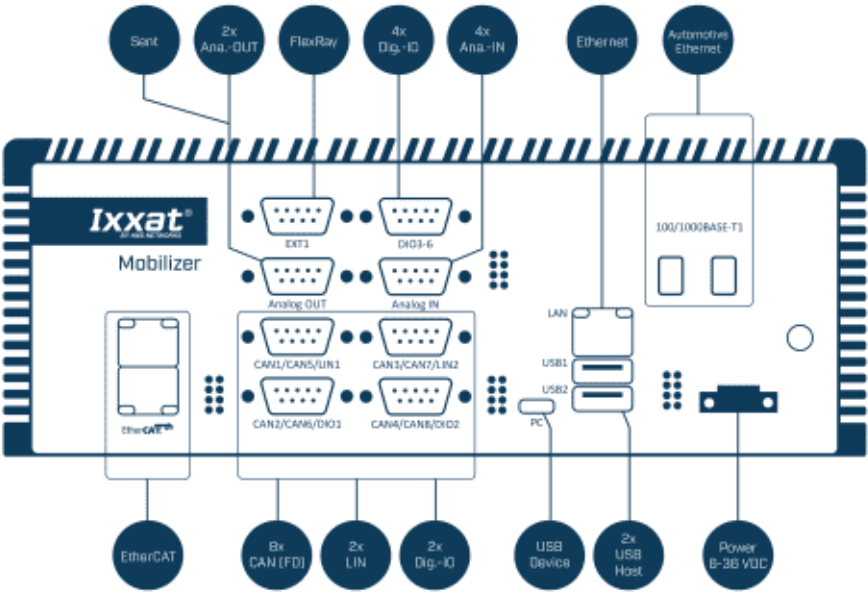
LIN Transceiver	MCP2003B-E/MC
LIN Baud Rate	up to 20 kBit/s

Certifications and Standards

Protection Class IP	IP40
CE	Yes
FCC	Yes



Use Case



Use Case

