

## 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.

#### ✓ Compatibility with advanced standards

Supports industrial protocols, including Automotive Ethernet, FlexRay and EtherCAT, facilitating high-speed data transfer and network integration for complex applications – especially suited for automotive engineering.

#### ✓ Overvoltage protection

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

#### ✓ 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.

#### ✓ 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.

#### ✓ Support for Linux and QNX

Using the free ECI driver package, the hardware can be easily integrated into Linux-based environments as well as into applications under the QNX real-time operating system. 32- and 64-bit ARM (Raspberry Pi) and Intel X86 platforms are supported.



## General

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)
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## Physical Features

Contains Battery	No
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## CAN Features

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

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

LIN Transceiver	MCP2003B-E/MC
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LIN Baud Rate	up to 20 kBit/s
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## Certifications and Standards

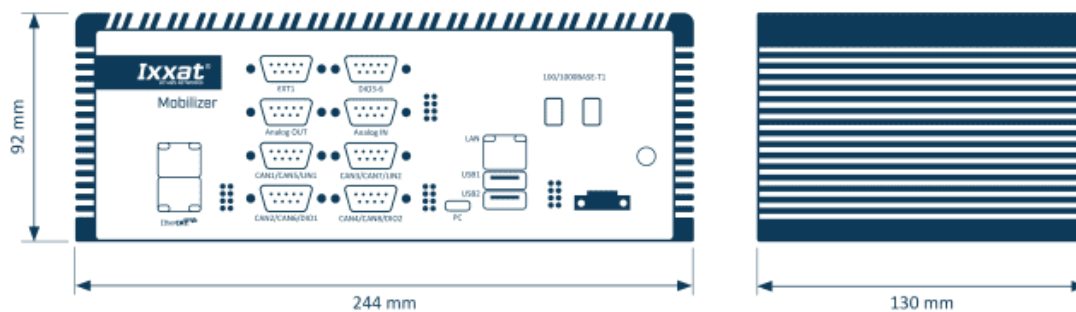
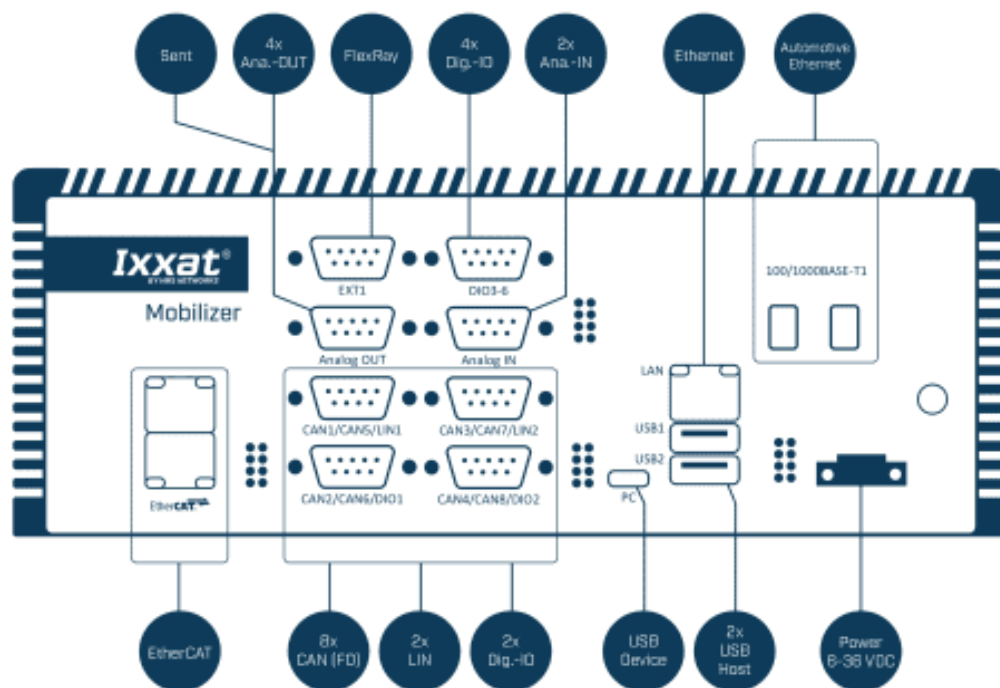
Protection Class IP	IP40
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CE	Yes
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FCC	Yes
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## Use Case



## Use Case

