Ixxat®
BY HMS NETWORKS

Mobilizer Standard 800

The Ixxat Mobilizer Standard 800 is a powerful and versatile solution for automotive uses, integrating two LIN 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).

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.

- **Multi-connectivity with various interfaces**
  Additional interfaces included: 8 x CAN FD, 2 x LIN, 1 x Ethernet (10/100/1000 Base-TX), 2 x Digital in/out (A/E), USB 3.0 device and USB 2.0 host and a SDXC slot.

- **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.

- **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.

- **Compatibility with advanced standards**
  Supports industrial protocols, including EtherCAT, facilitating high-speed data transfer and network integration for complex applications – especially suited for automotive engineering.

- **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.

- **Overvoltage protection**
  Galvanic isolation safeguards against overvoltage and protects from potential electrical damage.

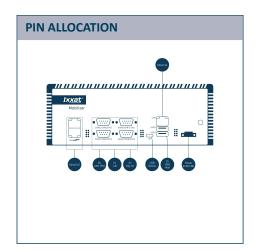| ORDER NUMBER	1.01.0143.08000
CAN/CAN FD channels	8
CAN high-speed bit rates	up to 1 Mbit/s
CAN FD bit rates	up to 8 Mbit/s

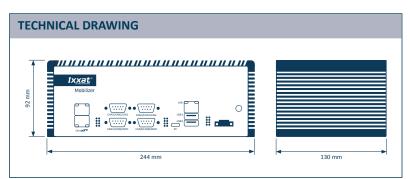| ORDER NUMBER	1.01.0143.08000
CAN bus termination resistors	-
CAN/CAN FD transceiver	SIC Transceiver TCAN1462
Galvanic isolation	D-Sub connectors: 1 kV DC for 1 second, 500 V AC/60Hz for 1 minute; LAN connection: 1.5 kVrms/60Hz, 2.25 kV DC for 1 minute
LIN bit rates	up to 20 kBit/s
LIN transceiver	MCP2003B
LIN VBAT	8 to 36 V DC
LIN channels	2
LAN bit rates	10/100/1000Base-TX
Ethernet connector	RJ45
Ethernet channels	1
USB interface	3
USB connector	USB-A, USB-C
USB 2.0 host	via USB-A Socket, USB 2.0 up to 480 Mbit/s
USB 3.0 device	via USB-C Socket, USB 3.0 up to 5 Gbit/s
Digital in/out	2
Analog In	-
Analog Out	-
Microcontroller	i.MX 8M Plus, Quad-Core, 1.8 GHz Cortex-A53 Processor
RAM	1 GB
Flash	4 GB eMMC
Host system	Linux
Power supply	6 to 36 V DC
Power consumption at 24 V	310 mA
Power consumption at 12 V	620 mA
Power connector	Phoenix MC 1.5-3-STF-3.81 BK
Weight	1,900 g
Housing material	Aluminum (6063-T5, finish: Surtec 650)
Dimensions	130 x 244 x 92 mm
SDHC slot	yes, SDXC
Operating temperature	-40 °C to +70 °C ambient
Storage temperature	-40 °C to +85 °C
Protection class	IP40
Relative humidity	10-95 %, non-condensing
Certification	CE, FCC

hms

ORDER NUMBER	1.01.0143.08000
Shock/Vibration	Shock: 8 g, 11 ms / Impulse: 3 g, 200 Hz

CERTIFICATES

ACCESSORIES	ORDER NUMBER
Mobilizer DIN Rail Mount	1.04.0143.00001
Mobilizer Y-CAN Cable	1.04.0143.00002
Mobilizer Power Cable	1.04.0143.00003
Termination adapter for CAN/CAN FD (D-Sub plug to socket)	1.04.0075.03000
Termination adapter for 2x CAN/CAN FD (D-Sub plug to socket)	1.04.0075.30003

PIN ALLOCATION

TECHNICAL DRAWING

SOFTWARE SUPPORT

The Mobilizer provides various possibilities to manage configurations. HMS provides with Ixxat ACT (Advanced Configuration Tool) an easy to use Windows-based tool enabling customers to configure the device via drag-and-drop. Most use-cases can be solved by using ACT Freeware.

Dashboard
With the dashboard, that is accessible via the IP address and a web browser, the state of the Mobilizer and the connected bus systems can be monitored, the different basic configurations can be selected and downloaded to the device, and data can be visualized.

ACT Tool
The engineering tool ACT is Windows based and allows the easy creation of configurations via drag-and-drop. The ACT tool provides further configuration possibilities (e.g. forwarding individual signals, changing message ID and content).

IxAdmin
IxAdmin is included in the ACT. With IxAdmin the different basic configurations can be selected, started and stopped and downloaded to the device. Changing baud rate settings is also possible as well as updating the firmware and managing the connected devices.