M-LOG V3

M-LOG 3rd Generation for Automotive Testing

- Up to 12 CAN bus inputs
- WakeOnCAN supported on all CAN inputs
- 4x Digital In / 4x Digital Out
- Data exchange (configuration, measurement data) through USB and LAN
- High data rate storage on removable CFast card with SATA interface (up to 64 GB)
- Complete galvanic isolation for CAN, LAN and DIG I/O
- 100% compatibility to M-LOG port replicators
- Configuration with IPEmotion
- Data streaming to IPEmotion, ETAS INCA, Vector CANape or many other tools via CAN or XCPonETH
- WiFi option supports short-distance wireless data connection
- Modem option supports long-distance wireless data connection
- No fans, hard drives or other mechanical rotating components ...

Operating system	Realtime operating system (RTOS32)
Data storage	4 GB internal, 4 GB removable CFast card (memory upgrade up to 64 GB optional)
Intelligent power management	Ignition, WakeOnCAN, emergency supply backup by Highcaps
Voltage supply	9 V_{DC} ... 36 V_{DC}
Power consumption, typical	9.0 W
Working temperature range	-40 °C ... +85 °C (-40 °F ... +185 °F)
Storage temperature range	-45 °C ... +95 °C (-49 °F ... +203 °F)
Relative humidity	5 ... 95 % PR05^{+}, PR06^{++},
Port replicator, selectable (Cable adapter for peripheral devices)	PR08^{+}, PR03^{++}, PR13^{++} $^{+}$ = standard, $^{++}$ = customer specific
IP-Code	IP 54 (ISO 20653 - 2013)
Dimensions	W158 mm x H69 mm x D102 mm (W6.22 in x H2.72 in x D4.02 in)
Weight	approx. 850 g (approx. 1.87 lb) depending on hardware configuration and port replicator

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PC		
CPU		Intel® Atom™ E3805 dual core, 1.33 GHz
RAM		2048 MB
DAQ application running on the logger		TESTdrive (≥ version 3.55)
Configuration software (Windows, external)		IPEmotion with PlugIn IPETRONIK-LOG
Interfaces		
USB 2.0 USB 1 USB 2	Type A female VIEW (Lemo)	Service interface, data transfer Display M-VIEW*fleet*, M-VIEW*graph*
M-CAN		IPETRONIK CAN bus (M-Series modules, CANpressure, MultiDAQ, ...)
IPElink		Fast Ethernet (100Base-TX) Connection M-LOG V3 < > PC used for configuration and online data visualization (XCPon ETH)
LAN (ETH1, ETH2)		2 x Fast Ethernet (100Base-TX) measurement input
CAN measurement input		CAN High Speed acc. to ISO 11898-2
Digital input and output		4 x DIG IN / 4 x DIG OUT
Hardware options		
Measurement input CAN LIN		 CAN2, CAN3, CAN4, CAN5-8, CAN9-12 LIN1,2
Memory upgrade (CFast)		8 / 16/ 32 GB
External devices WiFi Modem GPS		 WiFi per 802.11b/g (COMgate, COMgate WAN) GPRS/3G/CDMA (COMgate WAN) GPS using NMEA protocol
Software options		
Protocols		CCP, XCPonCAN, XCPonETH, KWPonCAN, UDS, J1939, OBD, Automotive Ethernet
Statistics		Online statistical calculations (DIN, Rainflow)
Traffic measurement		Acquire trace data from CAN bus (complete data stream). Several filter and trigger functions supported.
IPEcloud		Web portal for centralized administration of the logger fleet, data management, file conversion, status monitoring, logfile analysis, e-mail alerting, reporting
Standard cables (extract)		
Power/Remote	620-574.xxx	PWR/REM - Banana
M-CAN terminated (connecting modules)	620-429.xxx	CAN/PWR term - M-CAN Lemo 0B
Display M-VIEWfleet	620-578.xxx	VIEW - Lemo 1B angled
Display/Online data to IPEhub2	620-689.xxx	LOG-VIEW – IPEconnect (IPEhub2)
USB2	620-664.xxx	USB2 - USB-A/S
Ethernet (ETH1, ETH2)	620-636.xxx	ETH - RJ45, Power
Ethernet (IPElink, FLEETlog2 < > PC)	620-591.xxx	ETH - RJ45 (crosslink)
Ethernet (IPElink, FLEETlog2 < > network)	620-355.xxx	ETH - RJ45
Measuring input CAN 1	600-580.xxx	CAN D-Sub - open
Measuring input CAN 1 - 3, CAN 2 - 4	620-593.xxx	CAN D-Sub - 2x D-Sub 9/Pin (standard)
Digital input / digital output	620-324.xxx	DIG I/O HD-Sub 15 - open