IPETRONIK

µCROS SL

Scalable data logger for fleet management and experimental validation

- 4 CAN high speed interfaces
- Quickstart, No Message Lost (NML)*, Wake on CAN (WoC)
- Integrated 4G modem, WiFi and GPS receiver
- 1 digital output, 2 digital inputs
- 2 analog inputs 0 … 40 VDC @ 10 bit/50 Hz cut-off frequency
- Plastic and aluminum housing, gold anodized
- Configuration with IPEmotion RT.UI
- * Available from IPEmotion 2020 R2

Interfaces	
CAN HS (ISO 11898-2)	Yes
Analog input	2 x 0 ... 40 VDC @ 10 bit/50 Hz
Digital I/O	2/1
Ethernet interface to PC	Ethernet (100 Mbit)
USB 2.0 ports	2
Interface option 1	2 CAN, GPS
Interface option 2	2 CAN, GPS, WiFi, Modem
Interface option 3	4 CAN, GPS
Interface option 4	4 CAN, GPS, WiFi, Modem
Device	
Operating system	Linux (64 bit)
Processor	Atom x5-E3930
RAM memory	2 GB
Performance Index	878
Data logger software	IPEmotion RT
Storage medium	m2.SATA
Storage capacity	32/ 256 GB
Voltage supply	6 … 36 VDC
Supply voltage thresholds	On ±0.3 VDC / Off ±0.3 VDC

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Power consumption, typical	> 5.0 W
Working temperature range	-20 … 75 °C (-4 … 167 °F)
Storage temperature range	-30 … 85 °C (-22 … 185 °F)
IP-Code	IP 40 (ISO 20653 - 2013)
Relative humidity	5 ... 95 %
Dimensions	B165 mm x H45 mm x T105 mm (5.20 in x 1.42 in x 4.25 in)
Weight	530 g (1.2 lb)
Protocols and traffic	
CCP / XCP on CAN	Yes
J1939	Yes
GM-LAN	Yes
OBD	Yes
WWH-OBD	Yes
KWP on CAN	Yes
UDS / ODX / PDX	Yes
CAN-Traffic	Yes
ETH-Traffic	Yes
CAN-send	Yes
Software functions	
Configuration software	IPEmotion RT.UI
No Message Lost (NML)	Yes
Wake on CAN (WoC)	Yes
On board scripting	Yes
On board math & logic operations	Yes
File formats for data storage	ZIPRT, BLF, AVI, WAV, MDF4.0, MDF4.1, ASC, ATFX, PCAP (depending on operating system)
Wireless communication	
GNSS (Global Navigation Satellite System)	10 Hz (GPS)
WiFi	2.4 GHz / 5 GHz (WiFi 802.11 a/b/g/n/ac)
Modem	4G (LTE)
IPEcloud / FTP-Server	Yes
Video	
USB Video Class (UVC)	Yes
Accessories	

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Input cable	666-500 666-528 666-529 666-502
Antenna	114389

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