IPETRONIK

IPE833- 100BASE-T1

Scalable datalogger for fleetmanagement and validation

- Automotive Ethernet BroadR-Reach 100BASE-T1
- 4 CAN FD SIC inputs
- Integrated 4G- / LTE-Modem, WiFi and GPS-receiver
- 4 analogue inputs
- 4 digital inputs
- Integrated accelerometer and gyro
- Protection class IP67
- Developed for applications in harsh environments
- Softwaresupport starting with IPEmotionRT 2024 R2

Interfaces	
CAN HS (ISO 11898-2)	Yes
CAN FD	Yes
ETH (100 Mbit)	Automotive Ethernet BroadR-Reach 100BASE-T1
Analog input	4 x 0 ... 30 VDC @ 12 bit resolution; 1 % accuracy
Digital I/O	4/2
USB 2.0 ports	No
Driver display system	IPEmotion ME
Device	
Operating system	Linux (64 bit)
Processor	ARM i.MX8 M Plus Quad A53
RAM memory	4 GB eMMC 8 GB
Inputs	1 x Automotive Ethernet BroadR-Reach 100BASE-T1, 4 x CAN FD SIC
Performance Index	542
Data Transmission	Modem, WiFi, GPS
Data logger software	IPEmotion RT
Storage medium	MikroSD
Storage capacity	64 / 256 GB
Voltage supply	9 … 36 VDC
Power consumption, typical	< 2.5 W
Working temperature range	-40 ... 70 °C (-49 ... 158 °F)
Storage temperature range	-40 ... 70 °C (-49 ... 158 °F)
IP-Code	IP 67 (ISO 20653 - 2013) (with closed top cover only)
Relative humidity	5 ... 95 %

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Dimensions	B188 mm x H62 mm x T154 mm (7.40 in x 2.44 in x 6.06 in)
Weight	768 g (1.6 lb)
Protocols and traffic	
CCP / XCP on CAN	Yes
J1939	Yes
OBD	Yes
WWH-OBD	Yes
KWP on CAN	Yes
UDS / ODX / PDX	Yes
CAN-Traffic	Yes
ETH-Traffic	Yes
DLT	Yes
CAN-send	Yes
Software functions	
Configuration software	IPEmotion RT.UI
No Message Lost (NML)	No
Wake on CAN (WoC)	Yes (global for all inputs)
On board scripting	Yes
On board math & logic operations	Yes
File formats for data storage	ZIPRT, IAD, MDF4.x, PCAP, PCAPNG (IPEmotionRT)
Wireless communication	
GNSS (Global Navigation Satellite System)	10 Hz (GPS/ GLONASS/ QZSS/ BeiDou)
WiFi	5 GHz (WiFi802.11 ac, kein 2.4 GHz)
Modem	4G (LTE) Mini-SIM (2FF)
IPEcloud / FTP-Server	Yes
Accessories	
Input cable	666-539 IPE833 Input cable
Antenna	IPE-ANT-019
optional	IPE-ZUK-258 (battery 3350 mAh) IPE-ZUK-263 (battery 13400 mAh) IPE-ZUK-259 (USB Cover) IPE-CAM-007

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