

IPE853

Scalable data logger for fleet management and experimental validation

- Inputs 8 CAN FD-SIC, 8 CAN FD-SIC / LIN switchable, 3 ETH
- 16 GB RAM
- Quickstart, No Message Lost (NML), Wake on CAN/LIN/FlexRay
- cFast data storage up to 1000 GB
- Integrated 4G-/LTE-modem, WiFi and GPS receiver
- Visualisation via display and mobile devices with IPEmotion ME
- Galvanic isolation of CAN FD SIC, LIN, ETH, DIG I/O inputs
- Developed for applications in harsh environments
- Software integration via XCP on ETH / A2L format



Interfaces	
CAN HS (ISO 11898-2)	Yes
CAN FD	Yes
LIN (1.3 & 2.0)	Yes
ETH (1 GbE)	2
FlexRay	Via FlexRay Satellite Interface
Digital I/O	4/4
Audio input / output	1
Ethernet interface to PC	Ethernet (1Gbit)
USB 3.0 ports	1
Lemo, 9-pin for M-CAN modules	1
Driver display system	IPEmotion ME
Extender boxes	FlexRay, LIN, CAN FD Satellite interface
Device	
Operating system	Linux (64 bit)
Processor	INTEL X6425RE
RAM memory	16 GB
Inputs	8 CAN FD-SIC, 8 CAN FD-SIC / 8 LIN switchable, 2 ETH
Performance Index	2894
Data Transmission	Modem, WiFi, GNSS
Data logger software	IPEmotion RT
Storage medium	cFast
Storage capacity	240 / 512 / 1000 GB

Voltage supply	9 ... 36 VDC
Power consumption, typical	16 W
Working temperature range	-40 ... 85 °C (-40 ... 185 °F)
Storage temperature range	-45 ... 90 °C (-49 ... 194 °F)
IP-Code	IP 54 (ISO 20653 - 2013)
Relative humidity	5 ... 95 %
Dimensions	B206 mm x H73 mm x T166 mm (8.13 in x 2.87 in x 6.56 in)
Weight	1950 g (4.3 lb)
Protocols and traffic	
CCP / XCP on CAN	Yes
J1939	Yes
GM-LAN	Yes
OBD	Yes
WWH-OBD	Yes
UDS / ODX / PDX	Yes
XCP on ETH	Yes
FlexRay / XCP on FlexRay	Yes
SOME IP	Yes
FlexRay-Traffic	Yes
CAN-Traffic	Yes
LIN-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
Wake on LIN (WoL)	Yes
Wake on FlexRay (WoFR)	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)	20 Hz (GPS)
WiFi	2.4 GHz / 5 GHz (WiFi 802.11 a/b/g/n/ac)
Modem	4G (LTE)
Bluetooth	Bluetooth 5.3 Simultaneous operation of Bluetooth with WiFi 5 GHz possible
IPEcloud / FTP-Server	Yes
Video	
IP-camera (Real Time Streaming Protocol)	Yes
USB Video Class (UVC)	Yes
Accessories	
System cable	620-574 LOG-PR05 cable banana 620-072 Gigabit-ETH LEMO 1B14p ,PWR cable RJ45, banana/S 620-679 LOG-DI/O cable iMIC 620-688 LOG GB-ETH cable RJ45 630-524 X-Link system cable LOG X-Link 630-526 X-LINK cable LOG GB-ETH LEMO 1B14p
Input cable	620-684 IPEhub2/IPElog CAN1+2 cable, 2x CAN SubD/P 620-621 OBD2 cable M-LOG PR05 620-724 IPElog2 CAN/LIN cable CAN/LIN, 2xSubD/P