

ETHOS 2

High performance data logger for automotive ethernet networks

- high performance INTEL i7-9850HE plattform
- Developed for validation of large vehicle network architectures
- 28 x CAN FD, 8 x 1 GbE, 8 x LIN, 2 x FlexRay
- Up to 960 GB internal storage
- 2 slots for removable storage drives (hotplug up to 2 TB)
- Data ingest to company network via ingest station
- Multiple video channels for USB and IP cameras
- Wake on CAN, LIN, FlexRay (WoC, WoL, WoFR)
- Configuration via plugin IPEmotion RT or dataLog (depending on operating system)



Interfaces	
CAN HS (ISO 11898-2)	Yes
CAN FD	28
LIN (1.3 & 2.0)	8
ETH (1 GbE)	8 (RJ45) / 2 (Feature Connector)
SFP+ (10 GbE)	1
FlexRay	2
Analog input	8
Digital I/O	8/8
Audio input / output	CAN
Ethernet interface to PC	Ethernet (1Gbit)
USB 2.0 ports	2
USB 3.0 ports	2 (USB 3.1)
Lemo, 9-pin for M-CAN modules	Yes
Driver display system	openABK (dataLog) DRIVEview (IPEmotion RT)
Interface option 1	28 x CAN FD, 8 x 1 GbE, 8x LIN, 2 x FlexRay
Extender boxes	Via Satellite Interfaces
Device	
Operating system	Linux (64 bit)
Processor	Intel i7-9850HE
RAM memory	16 GB

Inputs	28 x CAN FD, 8 x 1 GbE, 8 x LIN, 2 x FlexRay, 8 x DIO, 8 x analog inputs
Performance Index	11572
Data Transmission	WiFi
Data logger software	dataLog and IPEmotion RT
Storage medium	m2.SATA
Storage capacity	Internal storage: 32/256/480 GB; removable storage drive NF1: 2 x 960 GB
Voltage supply	7 ... 36 VDC
Supply voltage thresholds	On 7 ±0.3 VDC / Off 7 ±0.3 VDC
Power consumption, typical	90 W
Working temperature range	-40 ... 80 °C (-40 ... 176 °F)
Storage temperature range	-45 ... 90 °C (-49 ... 194 °F)
IP-Code	IP 40 (ISO 20653 - 2013)
Relative humidity	5 ... 95 %
Dimensions	B206 mm x H137 mm x T300 mm (8.11 in x 5.36 in x 11.81 in)
Weight	6300 g (13.89 lb)
Protocols and traffic	
CCP / XCP on CAN	Yes
J1939	Yes (IPEmotionRT)
OBD	Yes
WWH-OBD	Yes (IPEmotionRT)
KWP on CAN	Yes
UDS / ODX / PDX	Yes
XCP on ETH	Yes
FlexRay / XCP on FlexRay	Yes
openABK	Yes (dataLog)
SOME IP	Yes
FlexRay-Traffic	Yes
CAN-Traffic	Yes
LIN-Traffic	Yes
ETH-Traffic	Yes
CAN-send	Yes
Software functions	

Configuration software	IPEmotion IPEmotion RT.UI
No Message Lost (NML)	Yes
Wake on CAN (WoC)	Yes
Wake on LIN (WoL)	Yes (dataLog)
Wake on FlexRay (WoFR)	Yes (dataLog)
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	
WiFi	2.4 GHz / 5 GHz (WiFi 802.11 a/b/g/n/ac)
IPEcloud / FTP-Server	Yes
Video	
IP-camera (Real Time Streaming Protocol)	AXIS, BASLER, LINKSYS, etc... / MJPEG stream
USB Video Class (UVC)	All cameras with MJPEG format
Accessories	
System cable	666-519 111540 620-560 M-CAN cable
Input cable	666-518 666-517 IPE-ANT-004