

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 dataLog PlugIn



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 3.2 Gen1)
Lemo, 9-pin for M-CAN modules	Yes
Driver display system	openABK
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
Storage medium	m2.SATA
Storage capacity	Internal storage: 32/256/480 GB; removable storage drive DXB: 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 ... 176 °F (-40 ... 80 °C)
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
OBD	Yes
WWH-OBD	No
KWP on CAN	Yes
UDS / ODX / PDX	Yes
XCP on ETH	Yes
FlexRay / XCP on FlexRay	Yes
openABK	Yes
SOME IP	Yes
FlexRay-Traffic	Yes
CAN-Traffic	Yes
LIN-Traffic	Yes
ETH-Traffic	Yes
CAN-send	Yes
Software functions	
Configuration software	dataLog PlugIn
No Message Lost (NML)	Yes

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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	ZIP, BLF, AVI, WAV, MDF4.x, ASC, PCAP, PCAPNG (dataLog)
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