ETHOS 2

High Performance Data Logger

New
Enquire now!

Fit for the most Challenging Automotive Applications

Highly efficient Integral System for Use in Mobile Measurements

Developed to validate large, complex vehicle electrical system architectures, ETHOS 2 meets the constantly growing requirements of vehicle development. With its 28x CAN FD inputs, 8x 1 GB Ethernet interfaces, an SFP+ interface, as well as 8x LIN and 2x FlexRay inputs, the data logger is particularly suited for the validation of large vehicle network architectures during fleet testing and test drives. This makes it a powerful mobile development and validation tool for vehicle network analysis and challenging ADAS applications.

The ETHOS 2 user interface has been tested and optimized for years to fulfill your future measurement tasks. Combine the ETHOS 2 with our data exchange station IPE DXS, and your data can be transferred to the local network infrastructure in no time at all. The fast data transfer keeps the availability of your development vehicles high and their down time low during expensive tests and gives your development team direct access to the measurement data for quick and efficient analyses.

ETHOS 2

Powerful Logger with Intel i7-9850HE Processor

A real powerhouse – thanks to its Intel i7-9850HE processor, the ETHOS 2 has a performance index of 11.572. The continuously increasing measurement requirements for CAN FD, LIN and Ethernet networks can thus be fulfilled quickly and effectively. Two hotplug slots for removable storage drives of up to 2 TB guarantee maximum write speed and data security at the same time.

Special Features

- > Powerful Intel i7-9850HE processor
- > 28x CAN FD, 8x 1 GbE, 1x SFP+, 8x LIN, 2x FlexRay, 8x DIO, 8x analog inputs
- > Up to 480 GB internal storage

- > 2 slots for removable storage drives
- > Removable storage drives up to 2 TB
- > Fast data transfer to the local network infra-structure via data exchange station IPE DXS

---

i

Do you already own an ETHOS? Starting in Q3 2024, you will have the opportunity to send in your current logger and have it **upgraded to ETHOS 2.** Our sales team will be happy to answer any further questions you may have. Our experts will be pleased to provide you with personal advice. Simply e-mail **sales@ipetronik.com** or call **+49 (0) 7221 9922 222.**
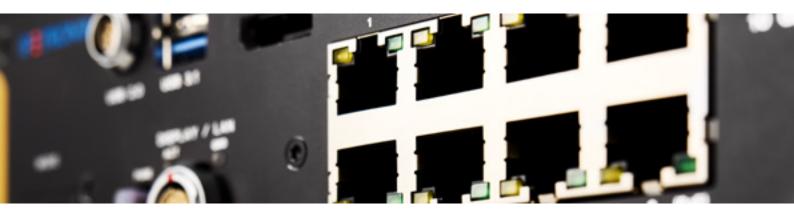
Enquire now!

IPETRONIK

Technical Data

Device	
Operating system	Linux (64 bit)
Processor	Intel i7-9850HE
RAM Memory	16 GB
Inputs	28x CAN FD, 8x 1 GbE, 8x LIN, 2x FlexRay, 8x DIO, 8x analog inputs
Performanceindex	11572
Data transmission	WiFi
Data logger software	IPEmotion RT, dataLog
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	Switch-on 7 VDC (±0.3) / Switch-off 7 VDC (±0.3)
Power consumption, typical	90 W
Working temperature range	-40 ... 80 °C (-40 ... 176 °F)
IP Code	IP 40 (ISO 20653 - 2013)
Dimensions	W206 mm x H137 mm x D300 mm (8.11 in x 5.36 in x 11.81 in)
Weight	6300 g (13.89 lb)
Software functions	
Configuration software	IPEmotion RT.UI, IPEmotion
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)
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 input / output	8/8
Audio input / output	CAN
Ethernet interface to PC	Ethernet (1Gbit)
USB 2.0	2
USB 3.1	2
Lemo, 9-pin for M-CAN modules	Yes
Driver display system	DRIVEview (IPEmotion RT), openABK (dataLog)
Interface option 1	28x CAN FD, 8x 1 GbE, 8x LIN, 2x FlexRay
Extender boxes	Via Satellite Interfaces

Protocols and traffic	
CCP / XCP on CAN	Yes
J1939	Yes (IPEmotion RT)
OBD	Yes
WWH-OBD	Yes (IPEmotion RT)
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

ETHOS 2 - Versatility at its Best

State-of-the-Art Interfaces and maximum Processor Performance ensure optimum Data Processing

> Control unit access via standardized vehicle bus protocols
> Simultaneous recording of signal-based information and traffic data
> Camera and sensor data recording
> Online calculations and postprocessing
> Measurement data synchronization via all inputs
> Analysis and measurement data postprocessing with the IPETRONIK software