

UniCAN 3



Product description

The **UniCAN 3** is a data logger for recording CAN signals and messages.

With the optional features of the **UniCAN 3** data logger, you are also well equipped for future measurement tasks.

An internal GPS module for recording location, speed and time, as well as a cellular modem and a WLAN module for mobile data transmission, allow a wide range of applications.

CAN

key features

- ▶ Up to 12 CAN bus interfaces, CAN FD capable
- ▶ 4 digital I/O interfaces
- ▶ Exchangeable CF card up to 64GB, 64 GB internal storage
- ▶ GPS receiver with external antenna
- ▶ LTE-Modem and WLAN modul
- ▶ Very low power consumption (operation & stand-by)

Scope of delivery



- ▶ Data logger UniCAN 3
- ▶ Configuration software UniCAN Suite
- ▶ Documentation

Accessories

- ▶ See data sheet "UniCAN Accessories"

Technical data

Type designation	UniCAN 3
	
CAN interfaces	4 × / 8 × / 12 × CAN 2.0B (isolated version on request) High-Speed CAN (ISO11898-2:2016), max. 1 Mbit/s CAN FD capable, can be enabled via option
Digital inputs/outputs	4 × (each channel individually configurable as input or output)
USB	1 × USB 2.0 OTG
LAN	1 × Fast Ethernet 10/100 Mbit/s Auto MDI-X
Storage capacity	1 × CF card slot (up to 64 GB) 64 GB internal (useable with firmware V4 or higher)
Available options	
Hardware	
CAN FD	CAN FD support according to ISO11898-1:2015
GPS	internal GNSS module, 72 channel GPS positioning engine (+ GLONASS / Bei-Dou / Galileo), 10 Hz position update rate
Mobile communication ¹	internal LTE modem (+ UMTS / EDGE / GPRS)
WLAN	internal WLAN module (IEEE 802.11 a/b/g/n/ac)
Data upload	transfer of recorded data to server
Protocols on CAN	XCP, CCP, CCP Block Read, Seed & Key, J1939, OBD2/EOBD, Autosar PDU
Software extensions	MQTT, Wake-on-CAN, CANsend, CAN Stimulation
Power supply	
Minimum	8 V DC (-10 %)
Maximum	32 V DC (+10 %)
Power consumption	typ. 3 W (in normal operation) max. 6.7 W (at full load)
Standby current	PowerControl OFF
w/o Wake-on-CAN	< 350 µA at 12 V
1 × Wake-on-CAN	< 450 µA at 12 V
12 × Wake-on-CAN	< 800 µA at 12 V
1 × WoC + NML	< 75 mA at 12 V
12 × WoC + NML	< 120 mA at 12 V
Indicators	
Front side	two-digit numerical status display for device status and error codes
Front & back side	2 multi-color LEDs each for status / network indication / card access

Type designation	UniCAN 3
Housing	aluminum, black coated
Weight (device)	approx. 600 g
Dimensions (w × h × d)	approx. 109 × 45 × 158 mm
Connectors	
CAN	1 × / 2 × / 3 × D-SUB HD plug, 15-pole (each for 4 × D-SUB connector, 9-pin, via adapter cable)
Digital I/O	LEMO 0B, 7-pole, code A
Power supply, Ethernet	LEMO 0B, 7-pole, code B
USB	Micro-AB USB connector
GPS	FAKRA connector, code C, blue; FAKRA-SMA adapter included in delivery
Mobile communication	FAKRA connector, code D, bordeaux; FAKRA-SMA adapter included in delivery
WLAN	RP-SMA connector
Operating and storage conditions	
Operating temperature range ¹	-40 °C to +80 °C
Relative humidity	max. 95 % (non-condensing)
Storage temperature	-40 °C to +85 °C
Certification	
Conformity	

¹ The operating temperature of UniCAN 3 versions with integrated modem should not drop below -30 °C. Otherwise, the modem may not start up reliably.



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