



UniCAN 2 Professional DCH



Product description

UniCAN 2 Professional DCH is a microcontroller-based stand-alone data logger with 4 CAN bus interfaces for the acquisition of measurement data and ECU information. UniCAN 2 Professional DCH features an extremely quick start-up time and a unique data security. The data is stored on the integrated CF card. Therefore, the data file system REC09 has been developed, supporting the specific characteristics of modern flash cards.

The UniCAN 2 Professional DCH has been designed for use under harsh environmental conditions in road test, endurance test, driver dynamics, benchmarks as well as test and validation of new technologies.

Shipping content

- ▶ Data logger UniCAN 2 Professional DCH
- ▶ CD for installation containing UniConf configuration software for Windows 7, 8, 8.1 and 10, detailed documentation

Key features

CAN

- ▶ Suitable for use in harsh environment
 - ▶ Die-cast housing
 - ▶ Protection class IP67
 - ▶ Operating temperature range: -40 °C to +85 °C
- ▶ Internal UMTS/CDMA modem and GPS receiver with detached antennas
- ▶ Digital I/O interfaces



Accessories

- ▶ 29-pole multi-connector cable
- ▶ 29-pole plug
- ▶ antennas

See data sheet "UniCAN 2 Accessories" for more.

Technical data

Type designation	UniCAN 2 Professional DCH
	
CAN interface	4 × CAN 2.0B High-Speed CAN (ISO11898-2), max. 1 Mbit/s
USB	1 × USB 2.0
Digital inputs	2 × (processing of signal changes up to 250 Hz)
Low level	$U_{Low} \leq 4V$ (open input will be read as low level)
High level	$U_{High} \geq U_{Batt} - 4V$ (max. 1 mA)
Digital outputs	2 ×
Low level	$U_{Low} \leq 1V$ (low level passively signalled at device shutdown)
High level	$U_{High} \geq U_{Batt} - 2V$ (max. 10 mA)
Storage capacity	16 or 32 GB (integrated CF card)
Mobile communication	internal UMTS/EDGE/CDMA modem, approval for the U.S. market (FCC, PTCRB) in progress
GPS	internal GPS-module 50 channel positioning engine, 5 Hz position update rate
Available extensions (optional)	
Support of protocols on CAN	CCP, XCP, OBD2/EOBD, J1939
Software extensions	CANsend, CAN Stimulation, Seed & Key (customer-specific adaptation)
Power supply	
Minimum	6.5 V DC (-10 %)
Maximum	50 V DC (+10 %)
Power consumption	stand-by current (PowerControl OFF) < 500 µA at 12 V typical 4 W (in operation)
LED indicators	3 multi-color LEDs on the front side for status, network indication and card access
Housing	aluminium, die-cast
Protection class	IP67
Weight	approx. 1,240 g
Dimensions (w × h × d)	approx. 137 × 51 × 215 mm

Type designation	UniCAN 2 Professional DCH
Connectors	
Power supply, CAN, digital I/O and USB	29-pole multi-connector
Mobile communication	SMA connector
GPS	SMA connector
Operating and storage conditions	
Operating conditions	-40 °C to +85 °C
Relative humidity	max. 95 % (non-condensing)
Storage temperature	-40 °C to +85 °C
Certification	 (in progress)
Conformity	 (in progress)

additional products

UniCAN 2

The FPGA-/microcontroller-based CAN bus data loggers of the **UniCAN 2** family have features that are otherwise — if at all — only found in PC-based devices. At the same time they offer unique data security. **UniCAN 2** is available in different housing versions, e. g. housing with removable CF card.





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