

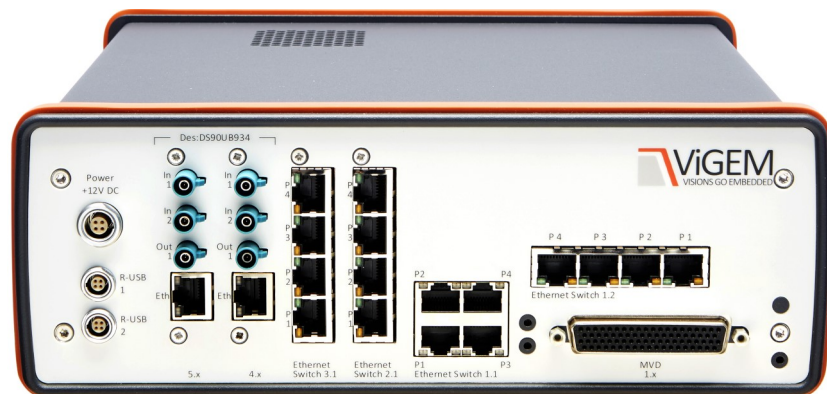
# Data Sheet CCA 9003

## Car Communication Analyzer

The CCA records the data stream in the communications network of a vehicle and processes this data, e.g. by saving it onto a removable data storage and, if desired, by streaming it to a connected PC.



Front view: Removable data storage and data outputs



Rear view: Data inputs (configuration example)

9003

CCA

## INNOVATION IS ORANGE

## CCA 9003 basic system

Operating voltage	Nominal: DC 12 V Range: DC 9 V ... 18 V, crank safe
Supply current (at DC 12 V)	Nominal value: 5 A Sleep mode: < 5 mA Maximum value: < 8 A
Operating temperature (no condensation moisture)	-10° C ... +50° C -20° C ... +65° C (on request)
Interfaces	2 x 2-Port 1000Base-T Ethernet (RJ45) Switch 10 x CANFD* 1 x switchable to CAN (LS) 2 x FlexRay, 4 x LIN, 5 x RS232, 4 x Digital I/O, 6 x Analog in, 2 x USB 3.0 host 1 x Gbit Ethernet (PC connection) 1 x CCA Control 1 x CCA data storage port 1 x CCA TS Expandable by Capture Units.
Data storage	Removable, easy to change
Dimensions (H x W x D)	100 x 273 x 271 mm
Weight	4.6 kg (without removable data storage)
Housing material	Powder-coated aluminium, protective borders of silicone rubber
Data recording rate	Up to 6.4 Gbit/s for lossless continuous recording
Timestamp	Synchronous for all buses 100 ns resolution, 1 µs accuracy
Wake-up functionality	Via CAN, FlexRay, Digital-in
Wake-up time	< 100 ms (for CAN, FlexRay, RS232) < 20 s (full functionality)
Protocols	Autosar-DLT, SOME/IP, gPTP, Mobileye TAPI, XCP over TCP, IP Camera (RTSP/RTP)
Formats of recording files	PCAP, VPCAP, MDF4, ADTF-DAT
Data download	Via HTTP and SMB (up to 90 MB/s)
Additional features	Configuration via web interface LUA scripting Plug-in for ADTF, others on request Triggered recording with lead and follow-up time WiFi (option via USB)

\* 4 x CANFD and 6 x CAN for variants with FRR interface.

## Removable data storages

Gross storage capacity   weight	S2000-I: 1.92 TB   0.6 kg S4000-I: 3.84 TB   0.8 kg S8000-I: 8.00 TB   1.0 kg S16TB-I: 15.20 TB   1.0 kg
Components	Four SSDs in RAID
Dimensions (H x W x D)	24.4 x 80.6 x 245.0 mm
Housing material	Anodized aluminium



Removable data storage S16TB-I

## Add-ons: Capture Units (CU)

Capture Units are plug-in modules for expanding the number and type of interfaces of the CCA basic system. The CCA 9003 basic system has five free slots suitable for the following CUs:

CU ETH-1G	4 x 1000Base-T Ethernet (RJ45) Switch
CU ETH-1G-P	2 x 2-Port 1000Base-T Ethernet (RJ45) Switch
CU ETH-10G	1 x 10 Gbit Ethernet, Single-Port SFP+
CU ETH-OABR	5 x 2 x 100Base-T1 Tap, constant latency (1.4 µs), 1 x optional switch to MAC with TCP/IP stack
CU CFR	8 x CAN (HS) 1 x switchable to CAN (LS) 2 x FlexRay 5 x RS-232
CU LVDS	CU LVDS-934 CU LVDS-2934 Other deserializers on request.

The CCA 9003 is a project-specific development. The certificate of conformity in accordance with the CE directives is sought.