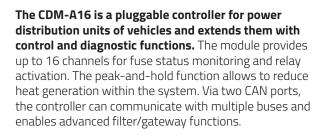
# **WURTH ELEKTRONIK** MORE THAN YOU EXPECT

# CDM-A16

Control & Diagnostic Module





#### **Technical Specification**

- 16 digital low side outputs 300 mA with peak-and-hold
- 4 digital high side outputs 2 A (PWM)
- 16 digital inputs for fuse status monitoring
- 8 analog inputs for analog sensors
- 5 V supply for sensor supply
- 2 x CAN bus high speed

### Functions

- Fuse status monitoring and relay control with peak-andhold function
- CAN communication with multiple buses, enabling gateway functionality (J1939, RAW CAN bus protocols)
- Logic processing of vehicle functions, programmed with WEcontrol Designer, an IEC61131-3 programming environment (FBD, ST, SFC, etc.)
- Sensor management (current, temperature, etc.) with 5 V supply and sensor acquisition via 8 analog inputs
- Direct load control through 4 digital outputs (2 A / PWM)

### **Technical Data**

General information	
Operating temperature	-30 °C to +85 °C
Operating range	9 to 32 V
Processor	NXP S 32K Cortex M4 32 bit
Clock frequency	80 MHz
Flash memory	2 MB
RAM	256 kB
FRAM	2 kB



#### **Features and Benefits**

- Integrated into the power distribution system, the module offers diagnostic options and efficient relay management.
- Vertical design of the controller reduces the required installation space and thus enables the integration of additional relays and fuses into the power distribution system.
- Peak-and-hold function reduces heat generation in the relay coil and thus extends its possible operating life.
- The controller can be integrated in our REDline Power Boxes Twin and M Plus.

## **Build your own system!**

- **1.** Provide us with your specific schematic and software requirements.
- 2. We propose you the perfect integration match within our REDline Power Boxes platform or develop a customised power distribution system for you.
- **3.** Together with you we integrate the controller and system diagnostic features into your schematic.
- Receive your customised smart power distribution solution with CAN diagnostic functions.
- 5. Monitor your system!



For more information write us an e-mail ics@we-online.com, call +49 7940 9810-0 or visit us at www.we-online.com/ics

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