

### Our USPs

- › Small, robust design according to OEM requirements
- › Very good efficiency with high operating temperature range up to max. +85 °C
- › Functionality according to USB Type-C Specification with 5 V / 3 A
- › Additional power supply possible via  $V_{conn}$  (max. 200 mA)



### Your Advantages

- › Module according to common automotive standards
- › Full functionality (5 V / 3 A) up to an ambient temperature of +60 °C
- › 2-stage overheating protection (power reduction, safety shutdown)
- › Heat protection for surrounding parts due to special housing
- › Integrated short-circuit and overvoltage protection

### Technical Information

#### Electrical

Input supply voltage $V_{bus-in}$	9.0 V – 18.0 V
Output voltage $V_{bus}$	4.75 V – 5.5 V over entire load and temperature range
Output current $V_{bus}$	max. 3,0 A
Output power $V_{bus}$	max. 15 W
Output power $V_{conn}$	max. 1 W

#### Mechanical

Dimensions l x w x h	approx. 56 mm x 40 mm x 26 mm
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#### Environmental

Operating temperature range	-40 °C up to +85 °C
Tested according to	LV 124

### Requirements

USB Type-C standard charging module according to automotive quality standards with one USB Type-C female connector incl. illuminated customer interface (optional).

### Applications

- › Designed for cockpit integration

### Protocols & Signals

- › Charging currents according to USB Type-C Standard
- › Additional charging profiles
  - › Legacy charging profiles BC1.2 DCP
  - › Apple charging profile (2.4 A)
  - › 1.2 V Divider Mode
  - › USB Type-C charging (5 V / 3 A)



# MD in a Nutshell



The C.A.S.E. megatrend describes the four essential future topics for the automotive industry: Connected, Autonomous, Shared & Service and Electric. Data plays a central role and drives the future of the automotive industry. Data is generated, transferred, merged and evaluated. We are experts in the transmission of the rapidly increasing data volumes and have developed the latest technological solutions for this future topic.

# 25

years experience  
in the automotive industry



# 100 %

automotive



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over 350 car models from  
more than 60 OEMs



Volume supplier – over  
160 million products in more than  
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