

USB Type-C Twin Charger Module

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 2x 5 V / 3 A
- › Additional power supply possible via V_{conn} (max. 200 mA)



Your Advantages

- › Module according to common automotive standards
- › Full functionality (2x 5 V / 3 A) up to an ambient temperature of +60 °C
- › Up to +85 °C charging performance with 2x 5 V / 2.4 A
- › 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 (information per channel)

Input supply voltage $V_{\text{bus-in}}$	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	44.1 mm x 50 mm x 39.3 mm
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Environmental

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

Requirements & Applications

Charging module according to automotive quality standards with two USB Type-C female connectors working in parallel, combined with an illuminated customer interface in the visible area

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 x 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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ownership structure



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Do you have any questions or need a data transmission solution in vehicles?
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