

S-DIAS Power Boost Module PSB 001



with 1 +24 V/1.6 A voltage supply for S-DIAS bus
 1 +5 V/1.6 A voltage supply for S-DIAS bus
 1 voltage monitor +24 V supply

The S-DIAS power boost module PSB 001 is used to power the voltage supply for the S-DIAS bus. The module can be integrated into an S-DIAS system and provides the following S-DIAS modules with voltage supply of +24 V/1.6 A and +5 V/1.6 A on the S-DIAS bus. The module therewith allows a configuration of the S-DIAS system with up to 64 participants.

Voltage Monitor

Power supply +24 V	Supply voltage > 18 V (corresponding DC OK-LED lights green)
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Electrical Requirements

Supply voltage	+18-30 V DC UL: Class 2 or LVLC			
Current consumption of the voltage supply	the current consumption is dependent on the connected loads (max. 2,2 A)			
Current consumption on the S-DIAS bus (IN) with +24 V supply missing.	+5 V		+24 V	
	typically 40 mA	maximum 50 mA	typically 5 mA	maximum 10 mA
Current output on the S-DIAS bus (OUT) to power the I/O/P modules	+5 V		+24 V	
	maximum 1.6 A		maximum 1.6 A	

Article and Miscellaneous

Article number	20-002-001
Dimensions	12.5 x 104.2 x 72 mm (W x H x D)
Standard	UL 508 (E247993)
Approvals	UL, cUL, CE

Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +60 °C	
Humidity	0-95 %, non-condensing	
Operating conditions	pollution degree 2 altitude up to 2000 m	
EMC resistance	in accordance with EN 61000-6-2 (industrial area)	
EMC noise generation	in accordance with EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	3.5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20