

S-DIAS CPU-Module CP 102



with 1 Ethernet
1 USB-OTG (On-the-Go)
1 CAN

The CPU in slice format with USB OTG is the right choice for slim automation systems. Individual I/O modules can be accessed within 1.12 µs.

A zero-voltage protected RAM area is available, which is implemented by copying a data block from the DDR RAM to the NAND Flash.

The voltage supply is already available in the module and with this variant, a maximum of 12 I/O modules can be powered. S-DIAS has no intelligent master (manager).

Performance Data

Processor	EDGE2 Technology
Addressable I/O/P modules	CAN participants: > 100 S-DIAS bus: 64 (of which a maximum of 12 modules can be powered)
Internal I/O	no
Internal cache	512-kbyte L2 Cache
Internal program and data memory (DDR3 RAM)	256-Mbyte
Internal remnant data memory	2-kbyte (one Flash block)
Internal storage device	NAND Flash 256-Mbyte
Interfaces	1x Ethernet 1x CAN 1x USB-OTG (Host/Device) (for service purposes only) 1x S-DIAS (without manager)
Data buffer	yes
Status display	no
Status LEDs	yes
Real-time clock	no

Electrical Requirements

Module Supply (Input)		
Supply voltage	+18-30 V DC, typically +24 V DC UL: Class 2 or LVLC	
Current consumption of voltage supply (+24 V)	typically 100 mA	maximum 1 A
S-DIAS Bus Supply (Output)		
Voltage supply from S-DIAS bus	+5 V	
Current consumption on the S-DIAS bus (+5 V supply)	maximum 0.6 A	
Voltage supply from S-DIAS bus	+24 V	
Current consumption on the S-DIAS bus (+24 V supply)	maximum 0.6 A	
USB Host (OTG) (can only be used with a USB stick for service purposes)	+5 V DC maximum 200 mA (current limited)	

Article Number and Miscellaneous

Article number	20-004-102
Operating system	Salamander
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 ... +55 °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 Hz – 8.4 Hz 1 g from 8.4 Hz – 150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20