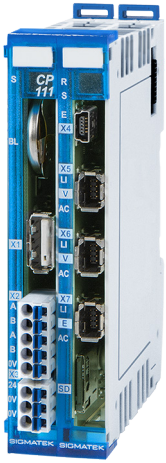
S-DIAS CPU Module
CP 111-2

CPU Module | 1 Ethernet, 2 VARAN Out, 1 CAN | 1 USB Device, 1 USB Host, 1 microSD



with 1 Ethernet
2 VARAN Out
1 CAN
1 USB Device
1 USB Host
1 microSD

The S-DIAS CP 111-2 CPU module is a high-performance processor unit for the S-DIAS I/O modules. Through the various interfaces, such as Ethernet, 2x VARAN, CAN bus, USB and an exchangeable microSD card, this module can be used for a variety of applications. Additionally, a RealTimeClock and zero voltage proof RAM space with buffer battery are provided. The CPU and I/O modules are supplied by the integrated voltage supply module.

Performance Data

Processor	EDGE2-Technology
Processor cores	1
Internal cache	32-kbyte L1 Instruction Cache 32-kbyte L1 Data Cache 256-kbyte L2 Cache
Addressable I/O/P modules	VARAN bus: 65,280 CAN participants: > 100 S-DIAS bus: 64
Internal I/O	no
Internal program and data memory (DDR3 RAM)	256-Mbyte
Internal remnantdata memory	256-kbyte SRAM (battery buffered)
Internal storage device	4 GB microSD card (3D-TLC pSLC technology)
Interfaces	1x Ethernet 2x VARAN Out (Manager) (maximum cable length: 100 m) 1x CAN 1x USB host 2.0 (high speed 480 Mbit/s) 1x USB-OTG (Host/Device), Type Mini B 1x S-DIAS (with manager)
Status display	no

	Status LEDs	yes
	Real-time clock	yes (battery buffered)
	Cooling	passive (fanless)

Electrical Requirements

Module Supply (Input)		
	Supply voltage	+18-30 V DC, typically +24 V DC UL: Class 2 or LVLC
	Current consumption of +24 V supply voltage	maximum 2.75 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 1.6 A
	Voltage supply from S-DIAS bus	+24 V
	Current consumption on the S-DIAS bus (+24 V supply)	maximum 1.6 A

Article Number and Miscellaneous

	Article number	20-004-111-2
	Operating system	Salamander
	Dimensions	25 x 104 x 80 mm (W x H x D)
	Project backup	internally on the microSD card
	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 5-8.4 Hz 1 g from 8.4-150 Hz
	Shock resistance	EN 60068-2-27	15 g
	Protection type	EN 60529	IP20