S-DIAS CPU Module CP 311



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

The S-DIAS CP 311 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 Dual Core	
	Processor cores	2	
	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/0	no	
	Internal program and data memory (DDR3 RAM)	256-Mbyte	
	Internal remnantdata memory	256-kbyte SRAM (battery buffered)	
	Internal storage device	1-Gbyte microSD card	
	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	по	

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

Electrical Requirements

Module Supply (Input)				
	Supply voltage	+18-27 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 1.1 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	20-004-311	
Operating system	Salamander	
Dimensions	37.5 x 104.2 x 72 mm (W x H x D)	
Project backup	internally on the microSD card	
Standard	UL 508 (E247993)	
Approvals	UL, cUL, CE	

Environmental Conditions

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	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