

# S-DIAS CPU Module CP 111



with 2 VARAN Out  
1 Ethernet  
1 USB Device  
1 microSD

The S-DIAS CP 111 CPU module is a high-performance processor unit for the S-DIAS I/O modules. Through 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. To operate the CPU, a voltage supply module is required that also has the USB host and CAN interface.

## Performance Data

Processor	EDGE2 Technology
Addressable I/O/P modules	VARAN bus: 65,280 CAN participants: > 100 S-DIAS bus: 64
Internal I/O	no
Internal cache	512-kbyte L2 Cache
Internal program and data memory (DDR3 RAM)	256-Mbyte
Internal remnantdata memory	256-kbyte SRAM (battery buffered)
Internal storage device	512-Mbyte microSD card
Interfaces	1x Ethernet 2x VARAN Out (Manager) (maximum cable length: 100 m) 1x CAN (via PS 101) 1x USB host 2.0 (high speed 480 Mbit/s) (via PS 101) 1x USB device 1.1 1x S-DIAS (with manager)
Status display	no
Status LEDs	yes
Real-time clock	yes (battery buffered)

## Electrical Requirements

Supply voltage	+5 V from PS 101	
Voltage supply from S-DIAS bus	+5 V	
Current consumption on S-DIAS bus (+5 V power supply)	typically 400 mA	maximum 450 mA

## Electrical Requirements

<b>Module Supply (Input)</b>		
Supply voltage	+5 V from PS 101	
<b>S-DIAS Bus Supply (Output)</b>		
Voltage supply from S-DIAS bus	+5 V	
Current consumption on the S-DIAS bus (+5 V supply)	typically 400 mA	maximum 450 mA

## Article Number and Miscellaneous

Article number	20-004-111
Article number power supply module	20-003-101
Operating system	Salamander
Dimensions	12.5 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

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +55 °C	
Humidity	0-95 %, non-condensing	
Operating conditions	pollution degree 2 indoor use 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