S-DIAS CPU Unit CP 931



with 2 Ethernet 2 VARAN, 1 CAN 2 USB 3.2 (Type A), 1 USB 3.2 (Type C) 1 DisplayPort

The S-DIAS CPU unit CP 931 is equipped with an Intel[®] Core i3 1115G4E. The CPU unit is used to control S-DIAS modules and has various interface connections. Status LEDs directly on the CPU unit provide current CPU status information. The CPU unit is mounted directly on the DIN rail with the S-DIAS modules.

Performance Data

Processor	Intel [®] Core i3 1115G4E
Processor cores	2
Processor clock	3.0 GHz
Internal program and data memory (RAM)	4-Gbyte DDR4, 3200 MHz
Internal remnant data memory	1-Mbyte MRAM
Internal storage device	128-Gbyte M.2 SATA SSD
Graphic	Intel [®] UHD Graphics
Addressable I/0/P modules	VARAN Bus: 65,280 CAN Bus: > 100 S-DIAS Bus: 64
Interfaces	2x Ethernet (10/100/1000) 2x VARAN Out Manager 1x CAN 2x USB 3.2 Gen 1 Type A 1x USB 3.2 Gen 1 Type C (only host) 1x DisplayPort 1.4a 1x S-DIAS
Internal interfaces and devices	M.2 Slot 2280 Key M (SATA 3 / PCIe 3.0 x1, occupied by main memory) Expansion module slot

Controls	2x button (SET/RESET)	
Status LEDs	14x Status LEDs 2x 7-Segment Displays	
Real-time clock	yes (battery buffered)	
Temperature sensors	7 (2x ambient, 5x core temperature sensors)	
Input voltage measurement	yes	
Cooling	passive	

Electrical Requirements

Supply voltage	+24 V DC ±20 % (SELV/PELV) UL: NEC Class 2	
Protection class	Ш	
Current consumption of (+24 V) power supply	typically 1 A (with no external devices connec- ted)	maximum 4.2 A (with external devices connected)
Inrush current without currentlimiting supply	maximum 45 A (for 153 µs, load-dependent)	
Inrush current with 24 V/10 A fixed voltage supply	maximum 1.5 A (for 6 ms, load-dependent)	
USB host current load (Type A & Type C)	maximum 0.9 A per USB	
Available current for S-DIAS (+5 V)	maximum 1.6 A	
Available current for S-DIAS maximum 1.6 A (+24 V)		ım 1.6 A

Environmental Conditions			
Storage temperature		-10	+70 °C
	Ambient temperature	0 +45 °C (60 °C w	rith opt. fan module)
	Humidity	10-95 %, nor	n-condensing
	Installation altitude above sea level	> 2000 m up to a maximum of 500	hout derating 0 m with derating of the maximum cure by 0.5 °C per 100 m
	Operating conditions	pollution	degree 2
	Noise emissions	≤ 70 dB	
EM	EMC resistance	according to EN 61000-6-2 (industrial area)	
	EMC noise generation		EN 61000-6-4 EN 61000-6-3
	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 (147.15 m/s²)
	Protection type	EN 60529 protection through housing	IP20



Article Number and Miscellaneous		
	Article number	20-004-931
	Operating system	Salamander
	Dimensions	60 x 110 x 193.5 mm (W x H x D)
	Standard	designed according to UL
	Approvals	CE

Notes



