

C-DIAS Processor Module CCP 511



VARAN interface, 800 MHz frequency
Control program configuration

The internal DC/DC converter powers all C-DIAS modules. Ethernet, CAN bus or a USB device (Mini USB) can be used as the online interface. A 7-segment display and 2 status LEDs provide information on the actual status of the CPU. Program updates are made over the USB. Using the exchangeable micro SD card, the entire control program can be transferred to another processor module. With the integrated VARAN manager, a high-performance VARAN system can be constructed to operate for example, decentralized I/O modules, drive systems or communication modules. It differs from the CCP 521 in that it has more processing power.

Performance Data

Processor	EDGE Technology X86 compatible
Clock frequency	800 MHz
Addressable I/O/P modules	VARAN bus 65.280 CAN bus 32 C-DIAS bus 8
Internal I/O	no
Internal cache	32-kbyte L1 cache 256-kbyte L2 cache
BIOS	AMI
Internal program and data memory (DDR2 RAM)	64 Mbytes
Internal remnant data memory	512 Kbytes
Internal storage device (IDE)	1-Gbyte micro SD card
Interfaces	1x USB Host 2.0 (full speed 12 Mbit/s) 1x USB Device 1.1 1x Ethernet 1x CAN 1x VARAN Out (Manager) 1x C-DIAS
Data buffer	yes

Status display	yes
Status LEDs	yes
Real-time clock	yes (buffering approximately 10 days)

Electrical Requirements

Supply voltage	+18 - 30 V DC	
Current consumption of (+24 V) power supply	typically 250 mA	maximum 600 mA
Starting current	for a very short time (~20 µs): 30 A	
Power supply on the C-DIAS bus	supplied by the CCP 511	
Current load on the C-DIAS bus (power supply for I/O/P modules)	maximum 1.2 A	

Article Number and Miscellaneous

Article number	12-104-511
Hardware version	1.x
Standard	UL (E247993)
Project back-up	internally on the micro SD card

Environmental Conditions

Storage temperature	-10 - +85 °C	
Operating temperature	0 - +50 °C	
Humidity	10 - 90 %, non-condensing	
EMC stability	in accordance with EN 61000-6-2 (industrial area)	
Shock resistance	EN 60068-2-27	150 m/s ²
Protection type	EN 60529	IP20