

C-DIAS Processor Module CCP 531



500 MHz frequency
Control program configuration

The internal DC/DC converter powers all modules on a C-DIAS module carrier. The CAN bus, an Ethernet interface or the USB device (Mini USB) can be used as the online interface connection. A 7-segment display and 2 status LEDs provide information on the actual status of the CPU. For program updates, the integrated USB Host interface can be used (USB stick, keyboard). With help from the exchangeable micro SD card, the entire control program can be easily transferred to another processor module. It differs from the CCP 511 in that it has less processing power.

Performance Data

Processor	EDGE Technology X86 compatible
Clock frequency	500 MHz
Addressable I/O/P modules	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)	512 Mbytes micro SD card (12-104-531) 1-Gbyte micro SD card (12-104-531-1)
Interfaces	1x USB Host 2.0 (full speed 12 Mbit/s) 1x USB Device 1.1 1x Ethernet 1x CAN 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	
Supply voltage (UL)	18 - 30 V DC (Class 2)	
Current consumption Power supply +24V	typically 150 mA	maximum 500 mA
Current consumption of (+24 V) power supply (UL)	maximum 500 mA	
Starting current	for a very short time (~20 µs): 30 A	
Power supply on the C-DIAS bus	supplied by the CCP 531	
Current load on the C-DIAS bus (power supply for I/O/P modules)	maximum 1.2 A	

Article Number and Miscellaneous

Article number	12-104-531 (512 Mbytes micro SD card) 12-104-531-1 (1-Gbyte micro SD card)
Hardware version	1.x
Standard	UL508 (E247993)
Project back-up	internally on the micro SD card

Environmental Conditions

Storage temperature	-10 - +85 °C	
Operating temperature	0 - +60 °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
Protection Type (UL)	open type device	
Pollution degree	2	