C-DIAS Processor Module
CCP 521

VARAN interface, 500 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 511 in that it has less processing power.

Performance Data		
	Processor	EDGE Technology X86 compatible
	Clock frequency	500 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 Power supply +24 V	typically 150 mA	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 521	
	Current load on the C-DIAS bus (power supply for I/O/P modules)	maximum 1.2 A	

Article Number and Miscellaneous		
	Article number	12-104-521
	Hardware version	1.x
	Standard	UL in preparation
	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/s²
	Protection type	EN 60529	IP20