

C-DIAS Processor Module CCP 621



S-DVI interface, 800 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 two 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 microSD card, the entire control program can be easily transferred to another processor module.

Performance Data

Processor	EDGE Technology X86 compatible 32-bit data bus
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)	128-Mbyte
Internal remnant data memory	512-kbyte
Internal storage device (IDE)	512-Mbyte microSD 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) (maximum cable length: 100 m) 1x C-DIAS 1x CAN bus on the TAE 1x S-DVI interface for terminal (TFT display, USB) Resolution 1024 x 768 pixels
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 power supply (+24 V)	typically 1100 mA	maximum 1300 mA
Inrush current	for a very short time (~20 µs): 30 A	
Power supply on the C-DIAS bus	supplied by the CCP 621	
Current load on C-DIAS bus (power supply for I/O/P modules).	maximum 1.2 A	

Article Number and Miscellaneous

Article number	12-104-621
Hardware version	1.x
Project back-up	internally on the microSD card
Standard	UL 508 (E247993)
Approbations	cUL, UL

Environmental Conditions

Storage temperature	-10 ... +85 °C	
Operating temperature	0 ... +45 °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