



The IC3122 processor module is designed for medium-performance control applications with communication requirements in demanding environmental situations. Software compatible with the IC3102 processor, shares the complete set of modules (I/Os, communications modules, etc.) offering the same control architecture.

Characteristics

- ARM 400Mhz processor
- 2 switched Ethernet interfaces (10/100), M-12 connector
- RTSX interface (Remote IO)
- 1 USB host interface
- 1,4MB RAM for user application
- 2MB for user application
- 32KB NVRAM
- TEST/ON/OFF switch and status LEDs
- EN510155 compliant

The main differences between the IC3122 processor variants are resumed in the following table:

Reference	Description
IC3122EA	2 x CAN ports, 4 TSX channels (Local IO) Integrated 24Vdc power supply
IC3122FA	2 x CAN ports, 8 TSX channels (Local IO) Not integrated 24Vdc power supply

Technical Features	IC3122EA	IC3122FA
Functional		
CPU	400Mhz ARM	
Program memory	2MB for user application	
RAM Memory	1,4MB	
NVRAM Memory	32KB for user application	
Ethernet	2 x 10/100 BaseTX (internally switched M-12 connector)	
CAN	2 x D-Sub9	
USB	1 x USB 2.0 Host	
TSX	4 channels	8 channels
Electrical		
Input Voltage	11Vdc to 34Vdc	+3,3V / +5,0V (from backplane)
Input Current	0,9A (depends on output power to backplane)	+3,3V: 0,7A (max.) / 0,575A (typ.) +5,0V: 0,1A (max.) / 0,050A (typ.)
Output Voltage	3,3V / 5,0V (to backplane)	-
Max. Total Output Power	4W (Shared between 3,3V and 5,0V)	-
Max. Output current	Max.total output power must be taken into account	-
Current Consumption 3,3V	1,1A	-
Current Consumption 5,0V	0,7A	-
Max. Dissipated Power	4W	2,5W
Isolation	1000V	-
Additional Descriptions		
Watchdog		
Real-time clock with Lithium battery		
3 position working mode switch (TST/ON/OFF)		
3 Status indication LEDs		
Internal temperature supervision		
Self-diagnosis		
Hot swap		
Mechanical		
Dimensions (WxHxD)	52,25mm x 175mm x 150,5mm	
Weight	540g	
Climatic		
Operating Temperature	Class TX:-40°C to + 70°C, passive cooling	
Storage Temperature	-40°C to + 85°C	
Relative Humidity	5% to 95% w/o condensing	