

The board BC0021M1 represents the basic programmable board of the Z102 system. It communicates with the other boards in the rack via SSIO3 communication which has a star topology; the BC0021M1 board creates a central node of this bus.



Electrical parameters					
Parameter	Conditions	Min.	Type	Max.	Units
Supply Voltage		21	24	26	V
Consumption			500	700	mA
Dielectrical strength	Communication channels RS-422/485/232 USB, SSIO3 100BASE-TX	700			Vef
Data rate	RS-422/485/232 USB 100BASE-TX SSIO3			115200 12 100 8	Bd MBit/s MBit/s MBit/s

- 2xCPU (algorithmic and communication)
- Algorithmic processor with Cortex-M4 core, frequency 168MHz
- Communication processor with Cortex-M4 core, frequency 168MHz
- 2MB of external SRAM
- 512kB of non-volatile FRAM
- RTC with backup power supply
- USB interface
- Ethernet interface
- RS-422/RS-485/RS-232 interface
- The communication interfaces are galvanically insulated from the system