

## Microcomputer board BC0021M1 of Control System SandRA 100 line

The **BC0021M1** microcomputer board is part of the comprehensive **Z100** series of the **SandRA** control system. Provides a high level of security and reliability and is therefore intended for application in the nuclear power environment. **SandRA** is a **robust and powerful** system, based on **our older reliable series**, complemented by **innovations** from the current world of electrical engineering.

**Board BC0021M1** is the basic user-programmable board of the **Z102**. It is connected to the other boards in the rack via the **SSIO3** serial bus in star topology. The board can be divided into two parts, algorithmic and communication, each containing a processor. Data is exchanged between the two parts via a shared memory implemented in the **FPGA**. Each of the two parts contains an **EEPROM** type memory where configuration data is stored and a **FLASH** type memory for storing user data in blocks. The board also contains **RTC** and **LED** status control circuits.



- **Určeno do 19" mechaniky**
- **Board dimensions 20 x 262 x 208 mm**
- **2x CPU (algorithmic and communication) with Cortex M4 core and 168Mhz frequency**
- **2MB external SRAM**
- **512kB of non-volatile FRAM**
- **Interfaces USB, Ethernet, RS-422/RS-485/RS-232**
- **Galvanic separation of communication interfaces from the system**

