



**C O M B O X**  
T E C H N O L O G Y

# **EXPANSION BOARD SMART A-6**

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Specialized boards of our own design are created for industrial air-cooled systems. 6 AMD or nVidia video cards are installed in the expansion board. The series-included two expansion boards allow us to connect 12 or more graphics cards to the same motherboard using only one PCIe port. It allows using of inexpensive and easily accessible motherboards.

#### Functions of the expansion board:

- The ability to connect 12 or more graphics cards to one motherboard
- The separate connector for cascade connection of the second board
- The data bus complies with PCI Express 2.0 specification
- The specialized processor to monitor parameters of the work
- The data is managed and sent directly through the PCIe bus
- The processor power is made directly by the PCIe bus regardless of the power supply
- The possibility of updating the firmware of the CPU through the PCIe bus
- Air humidity control
- Board dust control
- The monitoring of the main parameters of the power supply (Vmin, Vmax Vripple).
- Measurement of the aerate temperature on the board.
- The intelligent management of high-performance fans.
- Fan speed and condition monitoring
- Restart of motherboard when hanging
- Shutting down the system with invalid operation parameters
- The exception of the faulty video cards from the PCIe bus with the retention of functionality of the system
- Ability of connection two power supplies to one board
- Synchronous start of power supplies
- Led indication of the operating mode of each video card
- Board self-test mode during work