



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

EXPANSION BOARD SMART IC-6

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The specialized boards of our own design are created for systems immersed in two-phase liquid cooling systems. 6 AMD or nVidia MXM video cards are installed on the expansion board. The series-connected two expansion boards allow us to connect 12 or more graphics cards to the same motherboard using only one



PCIe port. It allows using the inexpensive and easily accessible motherboards.

Functions of the expansion board:

- The highest density GPU in the world
- It is specially designed for two-phase cooling systems
- 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 the parameters of the work
- The data is managed and sent directly through the PCIe bus
- Power the processor is made directly from the PCIe bus regardless of the power supply
- The possibility to update the firmware of the CPU using the PCIe bus
- The monitoring the electrical conductivity of the coolant
- Three-point control of coolant level and temperature
- Monitoring of the main parameters of the power supply (V_{min} , V_{max} Vripple)
- 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
- Led indication of the operating mode of each video card
- Board self-test mode when powered on
- Compact board size 290mm x 140mm