

D3051

AMD EPYC™ 4004/4005 Server Motherboard



D3051GB4N-10G



D3051GB2N-10G



D3051GB2N-1G

Single-Socket AMD AM5 Socket uATX Server Motherboard

- PCIe Gen 5x16 slot for best-in-class graphic & video creation and editing
- Onboard 10GBase-T Ethernet
- Onboard server management with AST2600 BMC
- Entry level server processor
- Standard uATX form factor

Applications

Private cloud, email server, object storage server, web-hosting, edge computing, backup system application and small office server

SPECIFICATIONS

Form Factor

9.6" x 9.6" Micro-ATX

Processor

Single AMD Ryzen™ 7000/9000 Series and EPYC™ 4004/4005 Series Processor, up to TDP 170W

Socket

(1) AMD Socket AM5

Memory

(4) DDR5 DIMM slots, 2DPC, ECC/non-ECC UDIMM
 - Max. Frequency 5600MT/s(1DPC) and 3600MT/s(2DPC)
 - Max. Capacity per DIMM: 48GB

Chipset

AMD B650

Expansion Slots

(1) PCIe 5.0 x16 slot from CPU
 (1) PCIe 4.0 x8 slot (x4 signal) from CPU
 (shares link with M2_1)

Networking

D3051GB4N-10G & D3051GB2N-10G SKUs:
 (2) 10GBase-T Ethernet Ports (Intel® X710AT2)
 D3051GB4N-10G & D3051GB2N-1G SKUs:
 (2) 1000Base-T Ethernet Ports (Intel® I210AT)

Storage

(4) SATA3.0 ports (one port supports SATA DOM)
 (2) SATA2.0 ports
 (2) M.2 2280/22110 PCIe4.0 x4
 (one shares link with PCIE_4 slot)

Display

(1) D-Sub 15-pin port from the integrated AST2600 BMC

USB

(7) USB3.2 Gen1 Ports

TPM

(1) TPM header with SPI interface

Server Management

(1) GbE RJ45 Mgmt. port (Realtek RTL8211FD-CG)
 ASPEED AST2600 with IPMI2.0 & Redfish support

Rear I/O Ports

D3051GB4N-10G & D3051GB2N-10G SKUs:
 (2) 10GBase-T Ethernet Ports
 D3051GB4N-10G & D3051GB2N-1G SKUs:
 (2) 1000Base-T Ethernet Ports
 All SKUs:
 (1) 1000Base-T Dedicated Server Management Port
 (4) USB3.2 Gen1 Type-A Ports
 (1) VGA D-Sub Port
 (1) COM DB9 Port
 (1) UID LED Button

Environmental

Operating Temperature: 0°C ~ 40°C
 Non-operating Temperature: -20°C ~ 70°C
 Non-operating Relative Humidity: 5% ~ 85%
 (non-condensing)

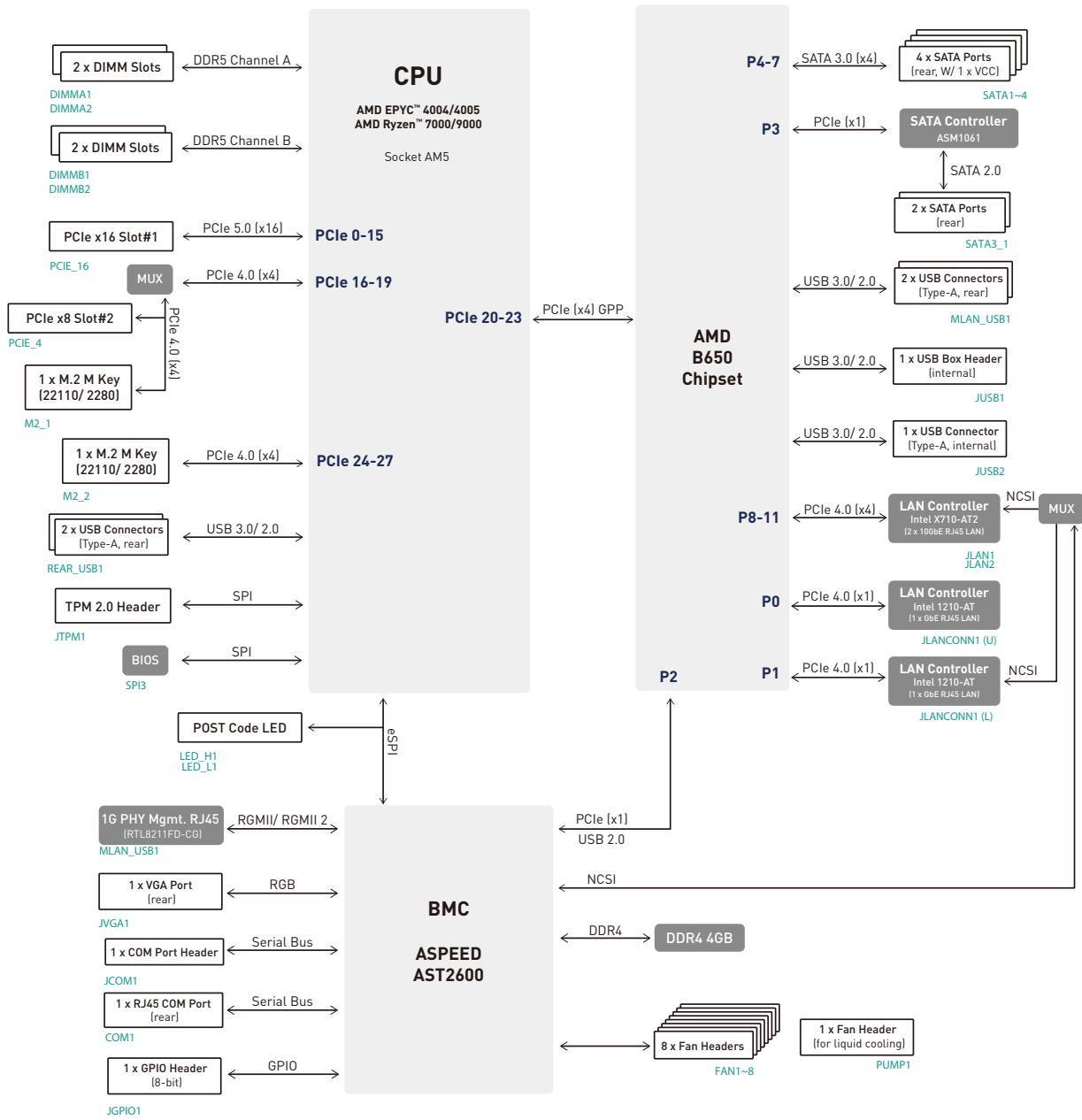
Package Contents

(1) Quick guide
 (1) D3051 motherboard
 (1) I/O shield
 (2) SATA cables
 (2) AM5 heatsink brackets

Optional Parts

TPM2.0 module: TPM20-IR

D3051 Motherboard Block Diagram



SKU TABLE

SKUs	LOM (LAN on Motherboard)	
D3051GB4N-10G	(2) 10GbE Ports	(2) 1GbE Ports
D3051GB2N-10G	(2) 10GbE Ports	-
D3051GB2N-1G	-	(2) 1GbE Ports



Specifications are subject to change without notice. Please visit our website for the latest information.

Learn more about MSI servers, visit <https://eps.msi.com>



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