

DUAL-SOCKET 8GPGPU PLATFORM



FT77B-B7059

B7059F77BV10R-2T / B7059F77BV10R

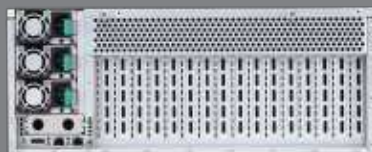


Front View



(10) Internal 3.5" HDDs

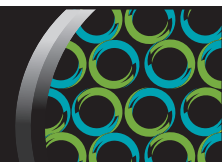
Back View



(8) PCI-E Gen.3 x16 slots
(1) PCI-E Gen.3 x8 slot for mezzanine card (underneath PSUs)
(2+1) 3,200W RPSU @ 220Vac

4U Dual-Socket Server Implementation for GPGPU and HPC Applications

- Dual LGA2011 socket supports (2) E5-2600/E5-2600 v2 series CPU
- Intel® C602 PCH
- (12+12) 240-pin DDR3 DIMM slots
Supporting up to 768GB LRDIMM 1866/1600/1333/1066 memory
Supporting up to 384GB R-DDR3 1866/1600/1333/1066 memory
Supporting up to 192GB U-DDR3 1866/1333/1066 memory
- (8) Full-Height/ Full-Length PCI-E Gen3 x16 slots support (8) Double-deck GPU adapters
- (2) Full-Height/ Full-Length PCI-E Gen3 x8 slots (one for mezzanine card)
- (3) Full-Height/ Full-Length PCI-E Gen2 x1 slots
- (1) Full-Height/ Full-Length PCI slot
- (1) Mini-SAS (4-ports) + (4)SATA-II + (2) SATA-III connectors w/ RAID 0, 1, 10, 5 support
- (2) GbE (via Intel® I350-BT2, 1 port shared with IPMI) or
- (2) 10GbE (via Intel® X540-AT2, 1 port shared with IPMI) (-2T SKU)
- Onboard BMC w/ IPMI and iKVM support
- (2+1) Redundant, hot-swap RPSU high-efficiency 3,200W PSU , 80-PLUS Platinum

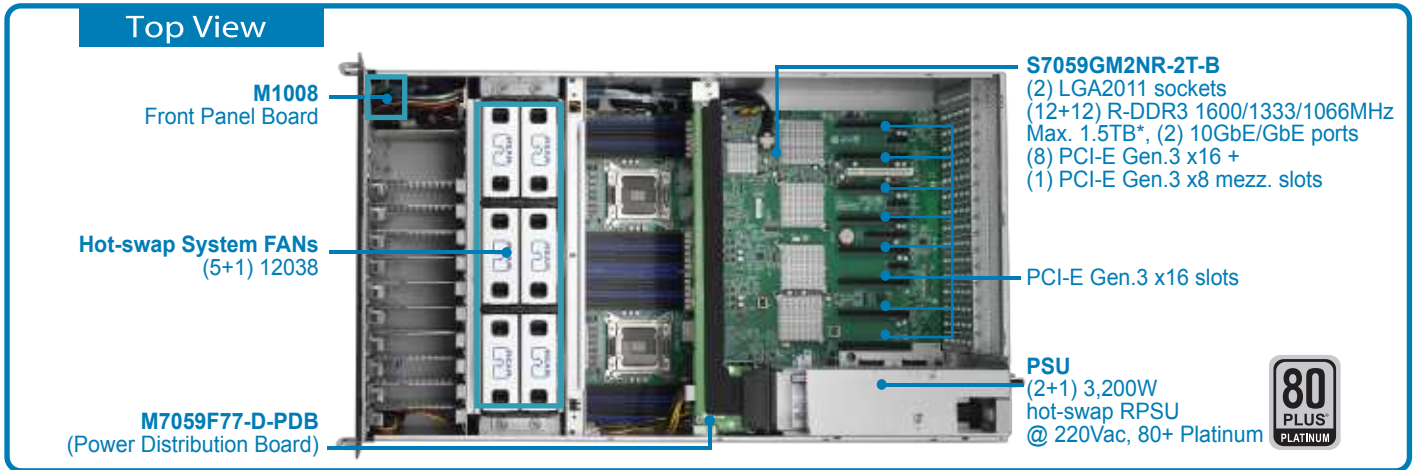


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Specifications



| | | |
|------------------------------|------------------------------------|--|
| System (Recommend Chassis) | Form Factor | 4U Rackmount |
| | Chassis Name | FT77B |
| | Dimension (H x W x D) | 30.31" x 17.24" x 6.93" (770 x 438 x 176mm) |
| | Motherboard | S7059GM2NR-2T S7059GM2NR |
| Front Panel | Buttons | (1) RST / (1) ID / (1) PWR w/ LED |
| | LEDs | (1) HDD / (2) LAN / (1) ID / (1) IPMI/Warning |
| | I/O Ports | (2) USB ports |
| External Drive Bay | Type / Q'ty | 2.5"/3.5" HDDs/ (10) |
| | Supported HDD Interface | (2) SATA 6Gb/s / (4) SATA 3Gb/s / (1) Mini-SAS (4port w/ SATA 3Gb/s) |
| System Cooling Configuration | FAN | (5+1) hot-swap 12cm fans |
| Power Supply | Type | RPSU hot-swap |
| | Redundancy | 2+1 |
| | Output Watts | 3,200 Watts |
| | Efficiency | 80 plus Platinum |
| Processor | Supported CPU Series | Intel Xeon Processor E5-2600/E5-2600 v2 series processors |
| | Socket Type / Q'ty | LGA2011/ (2) |
| | Thermal Design Power (TDP) wattage | Up to 150W |
| | System Bus | Up to 8.0/ 7.2/ 6.4 GT/s with Intel QuickPath Interconnect (QPI) support |
| Chipset | Chipset | Intel C602 |
| | Super I/O | - |
| Memory | Supported DIMM Qty | (12)+(12) DIMM slots |
| | DIMM Type / Speed | LRDIMM1866/1333/1066 memory R-DDR3 1866/1600/1333/1066 memory U-DDR3 1866/1333/1066 memory |
| | Capacity | up to 192GB UDIMM / 384GB RDIMM / 768GB LRDIMM |
| | Memory channel | 4 Channels per CPU |
| | Memory voltage | 1.5V/ 1.35V |
| | Expansion Slots | PCI-E |
| Expansion Slots | Recommended TYAN Riser Card | M7059F77-QDR-2, Dual QSFP IB mezzanine card (40Gb/s) M7059F77-FDR-2, Dual QSFP IB mezzanine card (56Gb/s) |
| | PCI | (1) PCI 32-bit slot |

| | | | |
|-----------------------|-----------------------------|---|----------------------------|
| LAN | Port Q'ty | (2) GbE (1port shared with IPMI) (2) 10GbE (1port shared with IPMI) (-2T SKU) | |
| | Controller | Intel® I350-BT2 Intel® X540-AT2 (B7059F77AV6R-2T SKU) | |
| Storage | Connector | (1) Mini-SAS (4-ports) + (4) SATA-II + (2) SATA-III | |
| | SATA | Controller | Intel® C602 series |
| | | Speed | (2) 6.0 Gb/s, (8) 3.0 Gb/s |
| | RAID | RAID 0/1/10/5 (Intel RST) | |
| Graphic | Connector type | D-Sub 15-pin | |
| | Resolution | up to 1920 x 1200 | |
| Input /Output | Chipset | Aspeed AST2300 | |
| | USB | (2) ports (via a dongle cable) | |
| | VGA | (1) D-Sub 15-pin port (via a dongle cable) | |
| System Monitoring | RJ-45 | (2) GbE (1port shared with IPMI) (2) 10GbE (1port shared with IPMI) (-2T SKU) | |
| | Chipset | Aspeed AST2300 | |
| | Voltage | Monitors voltage for CPU, memory, chipset & power supply | |
| | Temperature | Monitors temperature for CPU & memory | |
| Server Management | LED (On system front panel) | Over temperature warning indicator / Fan & PSU fail LED indicator | |
| | Temperature | Watchdog timer support | |
| | Onboard Chipset | Onboard Aspeed AST2300 | |
| | AST2300 IPMI Feature | IPMI 2.0 compliant baseboard management controller (BMC) / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub | |
| BIOS | AST2300 iKVM Feature | 24-bit high quality video compression / 10/100 Mb/s MAC interface | |
| | Brand / ROM size | AMI / 8MB | |
| Regulation | Feature | Plug and Play (PnP) /PCI.2.3 /WfM2.0 /SMBIOS2.3 /PXE boot / ACPI 2.0 power management /Power on mode after power recovery / User-configurable H/W monitoring / Auto-configurable of hard disk types | |
| | FCC (DoC) | Class A | |
| Operating Environment | CE (DoC) | Yes | |
| | Operating Temp. | 10° C ~ 35° C (50° F~ 95° F) | |
| | Non-operating Temp. | - 40° C ~ 70° C (-40° F ~ 158° F) | |
| RoHS | In/Non-operating Humidity | 90%, non-condensing at 35° C | |
| | RoHS 6/6 Complaint | Yes | |

(Specifications are subject to change without notice. Items pictured may only be representative.)

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