

DUAL-SOCKET 8GPGPU PLATFORM



FT77A-B7059

B7059F77AV6R-2T / B7059F77AV6R
B7059F77AV4R-LE / B7059F77AV4R-LE



Front View



(6) Internal 2.5" HDDs or (4) 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) 2,400W RPSU @ 220Vac

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

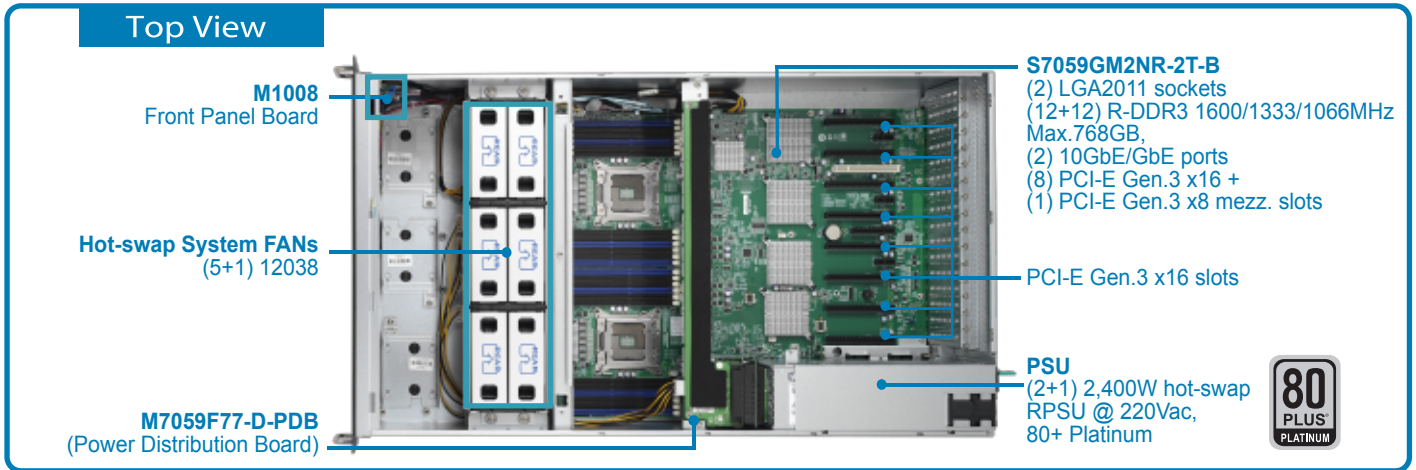
- Dual LGA2011 socket supports (2) E5-2600/E5-2600 v2 series CPU
- Intel® C602 PCH
- (12+12) 240-pin DDR3 DIMM slots
(12) 240-pin DDR3 DIMM slots(-LE SKU)
Supporting up to 768GB LRDIMM 1866/1600/1333/1066 memory
Supporting up to 384GB R-DDR3 1866/1600/1333/1066 memory
Supporting up to 192GB U-DDR3 1866/1333/1066 memory
- (8) Full-Height/ Full-Length PCI-E Gen3 x16 slots support (8) Double-deck GPU adapters
- (4) Full-Height/ Full-Length PCI-E Gen3 x16 slots support (4) Double-deck GPU adapters (-LE SKU)
- (2) Full-Height/ Full-Length PCI-E Gen3 x8 slots (one for mezzanine card)
- (1) Full-Height/ Full-Length PCI-E Gen3 x8 slots(-LE SKU)
- (3) Full-Height/ Full-Length PCI-E Gen2 x1 slots
- (1) Full-Height/ Full-Length PCI slot
- (4) Mini-SAS (4-ports) + (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 2,400W PSU , 80-PLUS Platinum
- (1+1) Redundant, hot-swap RPSU high-efficiency 1,000W/1,200W PSU , 80-PLUS Platinum(-LE SKU)

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B7059F77AV6R-2T/B7059F77AV6R
B7059F77AV4R-LE



Specifications



System (Recommend Chassis)	Form Factor	4U Rackmount
	Chassis Name	FT77A
	Dimension (H x W x D)	30.31" x 17.24" x 6.93" (770 x 438 x 176mm)
	Motherboard	S7059GM2NR-2T / S7059GM2NR / S7059GM2NR-LE
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" HDDs / (6) or 3.5" HDDs/ (4) 3.5" HDDs(-LE SKU)
	Supported HDD Interface	(2) SATA 6Gb/s / (4) SATA 3Gb/s
System Cooling Configuration	FAN	(5+1) hot-swap 12cm fans
Power Supply	Type	RPSU hot-swap
	Redundancy	2+1 / 1+1(-LE SKU)
	Output Watts	2400 Watts 1,000 Watts/ 1,200 Watts(-LE SKU)
	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 Up to 135W(-LE SKU)
	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 (12) DIMM slots(-LE SKU)
	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	(8) PCI-E Gen3 x16 slots / (2) PCI-E Gen3 x8 slots (one for mezzanine card) / (3) PCI-E Gen2 x1 slots
	PCI-E (-LE SKU)	(1) PCI-E x8 Gen.3 slot / (4) PCI-E Gen.3 x16 slot
	Recommended TYAN Riser Card	M7059F77-QDR-2, Dual QSFP 1B mezzanine card (40Gb/s) M7059F77-FDR-2, Dual QSFP 1B 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) + (2) SATA (totally support 6 ports)
	SATA Controller	Intel® C602 series
	SATA Speed	(2) 6.0 Gb/s, (4) 3.0 Gb/s
Graphic	Connector type	D-Sub 15-pin
	Resolution	up to 1920 x 1200
	Chipset	Aspeed AST2300
Input / Output	USB	(2) ports (via a dongle cable)
	VGA	(1) D-Sub 15-pin port (via a dongle cable)
	RJ-45	(2) GbE (1port shared with IPMI) (2) 10GbE (1port shared with IPMI) (-2T SKU)
System Monitoring	Chipset	Aspeed AST2300
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Temperature	Monitors temperature for CPU & memory
	LED (On system front panel)	Fan fail LED indicator / Over temperature warning indicator / Fan & PSU fail LED indicator
Server Management	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 v 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 /SMBIOS.2.3 /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 Compliant	Yes

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

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