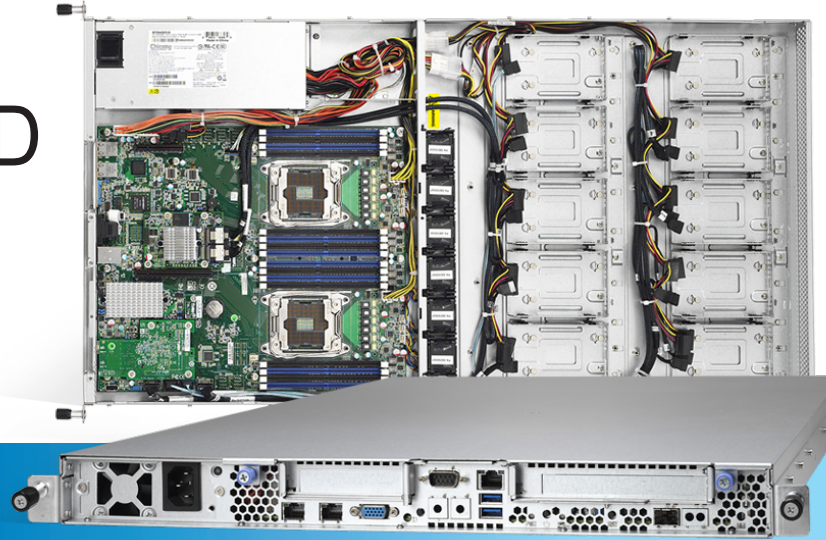


1U FRONT-SERVICED STORAGE SERVER PLATFORM



GF83-B7074

B7074G83V8 / B7074G83W18 / B7074G83E8V2



■ Front View



- (1) Full-Height/ Half-Length PCI-E Gen3 x16 slot
- (1) Half-Height/ Half-Length PCI-E Gen3 x8 slot
- (1) PCI-E Gen3 x8 Mezz slot
- (1) PCI-E Gen3 x8 OCP slot

■ Back View



1U Front-Serviced Storage Server Platform for HDFS Deployment

- Dual LGA2011 socket supports (2) E5-2600 v3 series processors
- Intel® C612 PCH (8)+(8) DIMM slots
Support up to 512GB RDIMM DDR4 2133/1866/1600
Support up to 1,024GB LRDIMM DDR4 2133/1600
Support up to 2,048 LRDIMM 3DS DDR4 2133/1600
Follow latest Intel DDR4 Memory POR
- (1) Half-Height/ Half-Length PCI-E Gen3 x16 slot
(1) Full-Height/ Half-Length PCI-E Gen3 x8 slot
(1) PCI-E Gen3 x8 Mezz slot
(1) PCI-E Gen3 x8 OCP slot**
- Up to (18) Fixed HDDs support w/(8) 2.5" SAS 6Gb/s + (10) 2.5" SATA 6Gb/s or (8) Fixed NVMe SSD + (2) SATA 6Gb/s (-E SKU)
- (2) GbE RJ-45 (via Intel X540-AM2)
(1) PHY (via Realtek RTL8201EL)
- Onboard BMC w/ IPMI and iKVM support
- (1) 650W PSU, 80 plus Platinum or
(1) 800W PSU, 80 plus Platinum (-E SKU only)

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Specifications

Top View

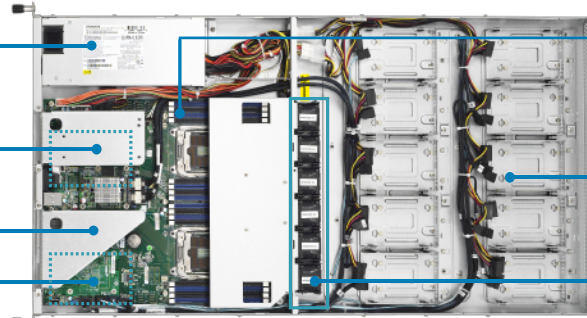


(1) 650W PSU
80 plus Platinum

(1) Half-Height/ Half-Length
PCI-E Gen3 x8 slot
(1) PCI-E Gen3 x8 OCP slot

(1) Full-Height/ Half-Length
PCI-E Gen3 x16 slot

(1) PCI-E Gen3 x8 Mezz slot



S7074GM2NR-B

(2) LGA2011 sockets
(8+8) R-DDR4 2133/1866/1600 Max.512GB
(2) GbE + (1) PHY

Up to (18) Fixed HDDs
support w/(8) 2.5" SAS 6Gb/s +
(10) 2.5" SATA 6Gb/s

System FAN

(6) 4cm fans

System (Recommend Chassis)	Form Factor	1U Rackmount
	Chassis Name	GF83
	Dimension (H x W x D)	32.6" x 17.17" x 1.72" (830 x 436 x 43.6mm)
	Motherboard	S7074GM2NR-B / S7074GM2NRE-B
Internal Drive Bay	Gross Weight	16 kg
	Type / Q'ty	3.5" fixed / (8) (-V8 SKU) 2.5" fixed / (18) (-W18 SKU) 2.5" fixed NVMe SSD + 2.5" fixed HDD / (8)+(2) (-E SKU)
	Supported HDD Interface	(8) SATA-III 6.0Gb/s (-V8 SKU) (8) SAS 6Gb/s + (10) SATA 6Gb/s (-W18 SKU) (8) NVMe (PCI-E Gen3 x4) + (2) SATA 6Gb/s (-E SKU)
	Pre-install TYAN SAS Mezz Card (-W18 SKU)	M7094-2308-8I LSI SAS Mezz Card (-W18 SKU only)
System Cooling Configuration	FAN	(6) 4cm fans
Power Supply	Type	EPS1U
	Efficiency	80 plus Platinum
	Input Range	200-240V/4.3A 200-240V/5.3A (-E SKU)
	Frequency	50-60 Hertz
Processor	Output Watts	650 Watts 800 Watts (-E SKU)
	Supported CPU Series	Intel® Xeon® Processor E5-2600 v3 Series
	Socket Type / Q'ty	LGA2011 / (2)
	Thermal Design Power (TDP) wattage	Max up to 145W
Chipset	System Bus	Up to 9.6/ 8.0/ 6.4 GT/s with Intel® QuickPath Interconnect (QPI) support
	Chipset	Intel® C612
Memory	Super I/O	-
	Supported DIMM Qty	(8)+(8) DIMM slots
	DIMM Type / Speed	RDIMM DDR4 2133/1866/1600 / LRDIMM DDR4 2133/1600 LRDIMM 3DS DDR4 2133/1600
	Capacity	Up to 512GB RDIMM/ 1,024GB LRDIMM/ 2,048GB LRDIMM 3DS *Follow latest Intel DDR4 Memory POR
	Memory channel	4 Channels per CPU
Expansion Slots	Memory voltage	1.2V
	PCI-E	(1) PCI-E Gen3 x16 slots (1) PCI-E Gen3 x8 slot (1) PCI-E Gen3 x8 Mezz. Slot (1) PCI-E Gen3 x8 OCP slot
	Pre-install TYAN Riser Card	M2091, PCI-E x16 1U riser card (left)
LAN	Port Q'ty	(2) GbE ports / (1) PHY
	Controller	Intel I350-AM2
	PHY	Realtek RTL8201EL

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

Storage	SAS (-W18 SKU)	Pre-install TYAN SAS Mezz Card	M7094-2308-8I LSI SAS Mezz Card
		Connector	(2) Mini-SAS connectors (totally support 8 ports)
		Controller	LSI SAS2308
		Speed	6.0 Gb/s
sSATA	RAID	RAID 0/1/1E/10 (LSI Integrated RAID)	
	Connector	(1) Mini-SAS (4-ports)	
	Controller	Intel® C612	
	Speed	6.0 Gb/s	
SATA	RAID	RAID 0/1/10/5 (Intel RST) only for 4 SATA devices	
	Connector	(1) Mini-SAS (4-ports) + (2) SATA (totally support 6 ports)	
	Controller	Intel® C612	
	Speed	6.0 Gb/s	
Graphic	RAID	RAID 0/1/10/5 (Intel RST)	
	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920 x 1200	
	Chipset	Aspeed AST2300	
Input /Output	USB	(2) USB3.0 ports (2 at front)	
	COM	(1) DB-9 COM port	
	VGA	(1) D-Sub 15-pin VGA port	
	RJ-45	(2) GbE, (1) PHY dedicated for IPMI	
System Monitoring	Button	(1) Rest/ (1) Power/ (1) ID	
	Others	(1) Power LED/ (1) HDD LED/ (1) ID LED	
	Chipset	Aspeed AST2300	
	Voltage	Monitors voltage for CPU, memory, chipset & power supply	
System Management	Temperature	Monitors temperature for CPU & memory & system environment	
	LED	Over temperature warning indicator / Fan & PSU fail LED indicator	
	Others	Watchdog timer support	
	Onboard Chipset	Onboard Aspeed AST2300	
BIOS	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 update	
	AST2300 iKVM Feature	24-bit high quality video compression / 10/100 Mb/s MAC interface	
Operating System	Brand / ROM size	AMI / 16MB	
	Feature	User-configurable H/W monitoring / SMBIOS 2.7/PnP/ Wake on LAN / ACPI 3.0/ACPI sleeping states S4,S5	
Regulation	OS supported list	Please refer to our Intel OS supported list.	
	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	

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