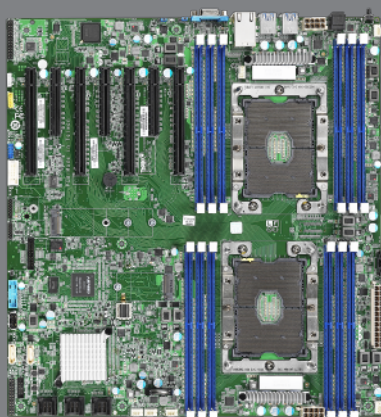
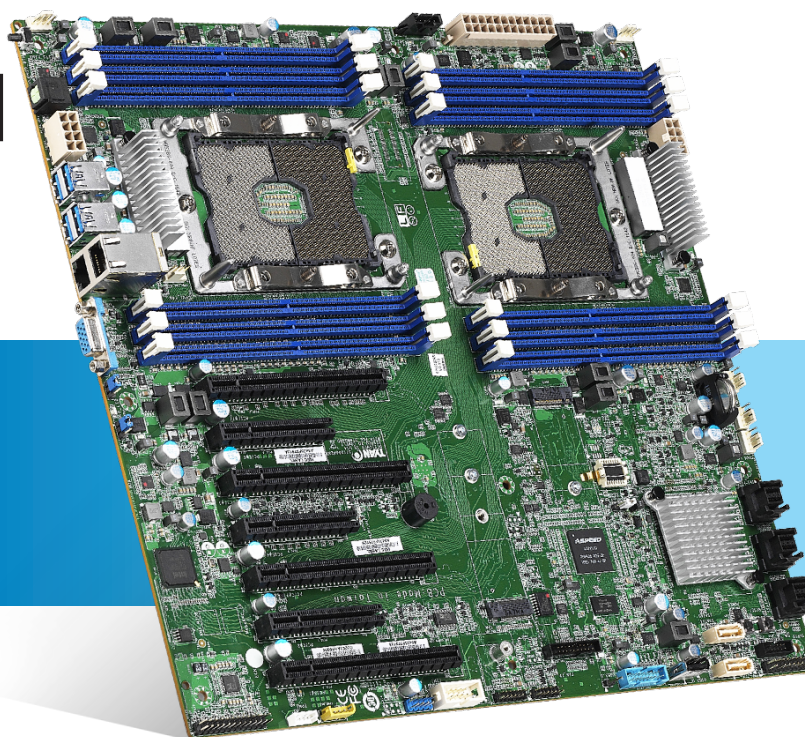


DUAL-SOCKET SERVER/ WORKSTATION PLATFORM

Tempest HX S7100

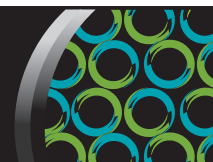
S7100GM2NR / S7100AG2NR



■ Intel® C621 Chipset

Dual-socket server/workstation implementation for mainstream applications

- Dual LGA3647 socket supports (2) Intel® Xeon® Scalable Processor (Skylake-SP)
- Intel® C621
- (6+6) DDR4 DIMM slots DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
- Support up to 384GB RDIMM/ 768GB LRDIMM/ 1,536GB RDIMM 3DS/LRDIMM 3DS
Follow latest Intel DDR4 Memory POR
- (4) PCI-E Gen3 x16 slots
(3) PCI-E Gen3 x8 slots
- (2) 8-pin SATA/SATA-DOM + (12) SATA ports by (3) mini-SAS HD connectors running at 6.0Gb/s w/ RAID 0, 1, 10, 5 support
(2) M.2 connectors (2242/2260/2280) by PCI-E interface
- (2) GbE ports (via Intel® I350-AM2)
- (1) SPDIF OUT Connector (via Realtek® ALC892-GR) (-A SKU only)
- SSI EEB (12" x 13") form factor

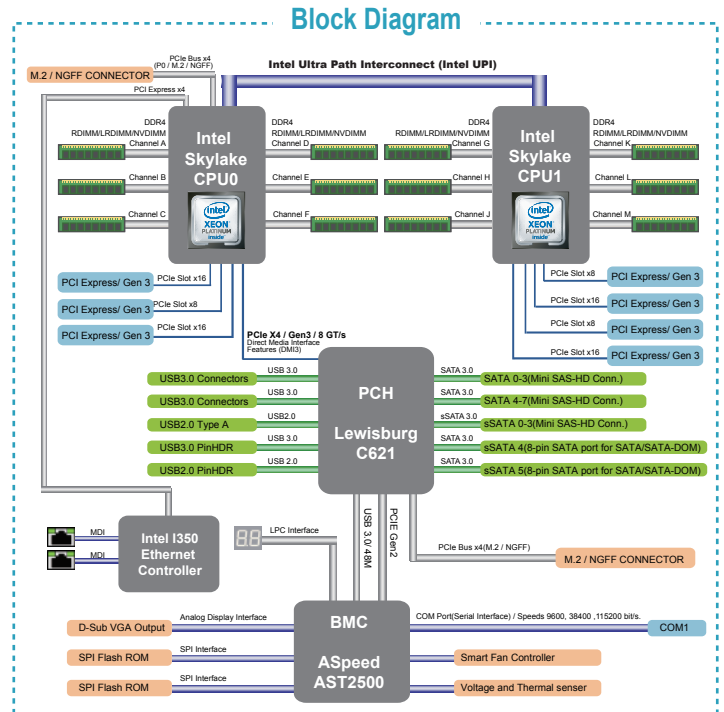


Tempest HX S7100

S7100GM2NR / S7100AG2NR

TYAN Specifications

Processor	Supported CPU Series	Intel® Xeon® Scalable Processor (Skylake-SP)	
	Socket Type / Q'ty	LGA3647/ (2)	
	Thermal Design Power (TDP) wattage	Max up to 205W	
Chipset	PCH / PCI-E Switch	Intel® C621	
	Super I/O	-	
Memory	Supported DIMM Qty	(6+6) DIMM sockets	
	DIMM Type / Speed	DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 2666	
	Capacity	Up to 384GB RDIMM/ 768GB LRDIMM/ 1,536GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel DDR4 Memory POR	
	Memory channel	6 Channels per CPU	
	Memory voltage	1.2V	
Expansion Slots	PCI-E	(4) PCI-E Gen3 x16 slots (3) PCI-E Gen3 x8 slots	
	Others	-	
LAN	Port Q'ty	(2) GbE ports(1 port shared with IPMI/ -M SKU only)	
	Controller	Intel® I350-AM2	
	PHY	-	
Storage	SATA	Connector	(2) Mini-SAS HD (8-ports)
		Controller	Intel® C621
		Speed	6.0 Gb/s
	sSATA	Connector	(2) 8-pin SATA/SATA-DOM, (1) Mini-SAS HD (4-ports)
		Controller	Intel® C621
		Speed	6.0 Gb/s
M.2 connector	(1) M.2 connector (2242) by PCI-E interface / (1) M.2 connector (2242/2260/2280) by PCI-E interface		
Graphic	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2500 Aspeed AST2510 (-A SKU)	
Audio (-A SKU)	Chipset	Realtek® ALC892-GR	
	Connector	(1) SPDIF OUT Connector, (1) 26-pin 7.1 ch HD Connector	
	Feature	High Definition Audio, 7.1 ch	
Input /Output	USB	(3) USB2.0 ports (2 via cable, 1 Type-A), (6) USB3.0 ports (4 at rear, 2 via cable)	
	COM	(1) header	
	Audio	(1) SPDIF OUT Connector (-A SKU only)	
	VGA	(1) D-Sub 15-pin VGA port	
	DVI	-	
	Power	SSI 24-pin + 8-pin + 8-pin power connectors	
	RJ-45	(2) GbE ports	
	PSMI	-	
	Front Panel	(1) 2x12-pin SSI front panel header	
	SATA	(2) 8-pin SATA/SATA-DOM connectors + (3) Mini-SAS HD (4-in-1) connectors	
TPM (Optional)	TPM Support	Please refer to our TPM supported list.	



System Monitoring	Chipset	Aspeed AST2500 Aspeed AST2510 (-A SKU)
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Fan	Total (6) 4-pin headers
	Temperature	Monitors temperature for CPU & system environment
	LED	Over temperature warning indicator / Fan & PSU fail LED indicator
Server Management (-M SKU only)	Onboard Chipset	Onboard Aspeed AST2500
	AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC), Supports storage over IP and remote platform-flash, USB 2.0 virtual hub
	AST2500 IKVM Feature	24-bit high quality video compression, 10/100/1000 Mb/s MAC interface
BIOS	Brand / ROM size	AMI / 32MB
	Feature	Hardware Monitor, SMBIOS 3.0/PnP/Wake on LAN, Boot from USB device/PXE via LAN/Storage, User Configurable FAN PWM Duty Cycle, Console Redirection, ACPI sleeping states S4,S5, ACPI 6.1
Form Factor	Form Factor	SSI EEB
	Board Dimension	12"x13" (305x330mm)
Operating System	OS supported list	Please refer to our Intel OS supported list.
Regulation	FCC (DoC)	Class B
	CE (DoC)	Yes
Operating Environment	Operating Temp.	10° C ~ 35° C (50° F ~ 95° F)
	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
	In/Non-operating Humidity	90%, non-condensing at 35° C Non-operating Relative Humidity: 10% to 95% (non-condensing)
RoHS	RoHS 6/6 Compliant	Yes

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

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