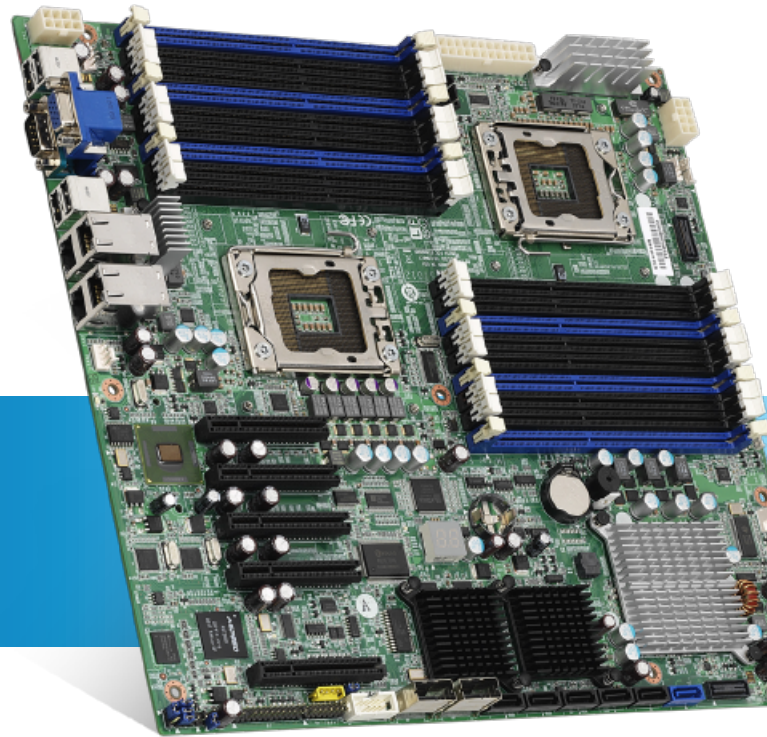
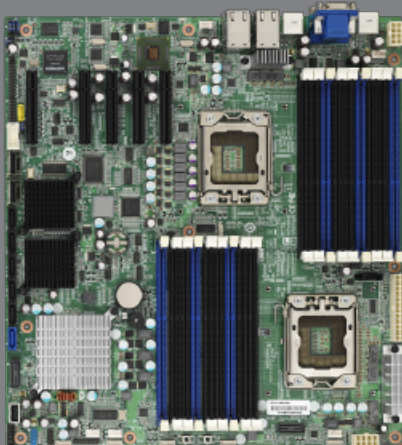


DUAL-SOCKET SERVER PLATFORM

S7012

S7012WGM4NR/ S7012GM4NR



■ Intel® 5520 Chipset

High-end dual-socket server platform for HPC and server virtualization applications with (4) GbE and iKVM support

- Dual LGA1366 sockets support up to (2) Intel® Xeon® Processor 5500/ 5600 Series
- Support QPI 6.4/ 5.86/ 4.8 GT/s
- Intel® 5520 IOH
- Intel® ICH10R South Bridge
- (18) 240-pin DDR3 DIMM slots support up to 144GB R-DDR3 1333/1066/800MHz w/ ECC memory
- (4) PCI-E Gen.2 x8 slots
- (3) PCI-E Gen.2 x8 slots (S7012WGM4NR)
- (1) PCI-E x4 slot
- (8) SAS ports by (2) mini-SAS connectors w/ RAID 0, 1, 1E support (S7012WGM4NR)
- (6) SATA-II connectors w/ RAID 0, 1, 10, 5 support
- (4) GbE LAN
- Onboard BMC w/ iKVM support
- SSI EEB (12" x 13") form factor

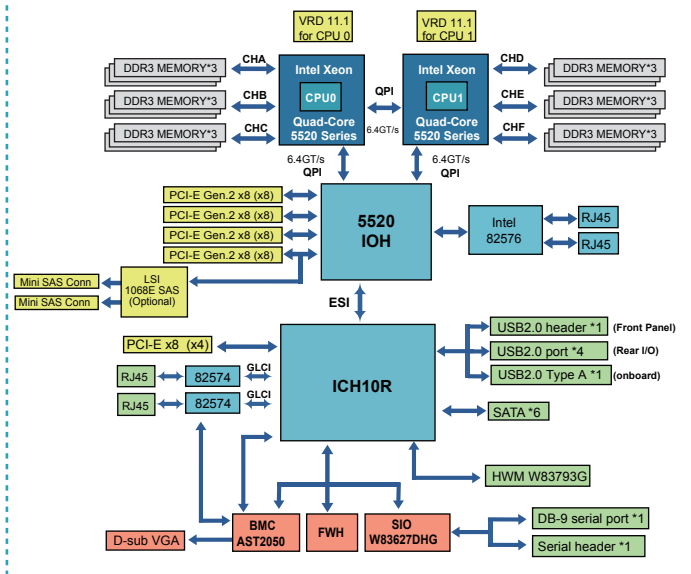
S7012

S7012WGM4NR/ S7012GM4NR



Processor	Supported CPU Series	Intel® Xeon® Processor 5500/ 5600 Series
	Socket Type / Q'ty	LGA1366 / (2)
	Thermal Design Power (TDP) wattage	130W
	System Bus	Up to 4.8/ 5.86/ 6.4GT/s with Intel® QuickPath Interconnect (QPI) support
Chipset	IOH / ICH	Intel® 5520 / ICH10R
	Super I/O	Winbond W83627
Memory	Supported DIMM Qty	(18) DIMM sockets
	DIMM Type / Speed	DDR3 800/1066/1333 RDIMM/UDIMM
	Capacity	Up to 144GB at launch w/ dual rank RDIMMs
	Memory channel	6 Channels (3 Channels per CPU)
	Memory voltage	1.5V
Expansion Slots	PCI-E (S7012WGM4NR only)	(3) PCI-E Gen.2 x8 slots (1) PCI-E x8 slot (w/ x4 link)
	PCI-E (S7012GM4NR only)	(4) PCI-E Gen.2 x8 slots (1) PCI-E x8 slot (w/ x4 link)
	Recommended TYAN Riser Card	M2083-RS, PCI-E x16 1U riser card (left)
LAN	Port Q'ty	(4)
	Controller	Intel® 82574L Intel® 82576
Storage	SAS (opt.)	Connector (2) Mini-SAS connectors (support 8 ports)
		Controller LSI SAS1068E (S7012WGM4NR only)
		Speed 3.0 Gb/s
	SATA	RAID RAID 0/1/1E (LSI Integrated RAID)
		Connector (6) SATA
		Controller ICH10R
Graphic	Connector type	D-Sub 15-pin
	Resolution	1600x1200@60Hz
Input /Output	Chipset	Aspeed AST2050
	USB	(7) USB2.0 ports (2 at rear, 4 via cable, 1 type A onboard)
	COM	(2) ports (1 at rear, 1 via cable)
	SAS (opt.)	(2) Mini-SAS (4-in-1) connectors (S7012WGM4NR only)
	VGA	(1) D-Sub 15-pin VGA port
	RJ-45	(4) GbE ports
	Power	SSI 24-pin + 8-pin + 8-pin power connectors / EPS12V
	Front Panel	(1) 2x12-pin SSI front panel header
	SATA	(6) SATA-II connectors
	Chipset	Winbond W83793G
System Monitoring	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Fan	Total (5) 4-pin headers Total (5) 8-pin headers
	Temperature	Monitors temperature for CPU & system environment
	LED	Fan fail LED indicator (presented by system front panel) Over temperature warning indicator
	Others	Chassis intrusion detection Watchdog timer support

Block Diagram



Server Management	Onboard Chipset	Onboard Aspeed AST2050
	AST2050 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) Supports storage over IP and remote platform-flash BIOS update USB 2.0 virtual hub
	AST2050 iKVM Feature	24-bit high quality video compression Dual 10/100 Mb/s MAC interfaces
BIOS	Brand / ROM size	AMI / 4MB
	Feature	Plug and Play (PnP) / PCI2.3 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 Multiple boot options
Form Factor	Form Factor	SSI EEB
	Board Dimension	12"x13" (305x330mm)
Operation System	OS supported list	Please refer to our 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
RoHS	RoHS 6/6 Complaint	Yes

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

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