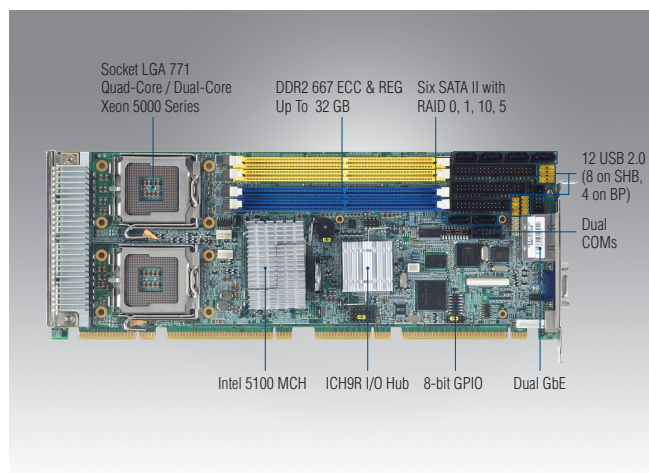


PCE-7214

Dual LGA771 Quad Core Xeon/Xeon LV SHB with VGA Dual GbE



Features

- Compliant with PICMG 1.3
- Supports Dual LGA 771 Quad Core Xeon/Xeon LV FSB processors with 1333 MHz processors
- Supports Dual Channel DDR2 533/667 ECC REG SDRAM up to 32 GB
- Two PCIe x8 or one x16 and four x1 backplane
- Supports both PCE-5000 and PCE-7000 series backplanes
- Dual Gigabit Ethernet via two PCIe x1 link
- 6 SATA2 ports supports S/W SATA RAID 0, 1, 10, 5

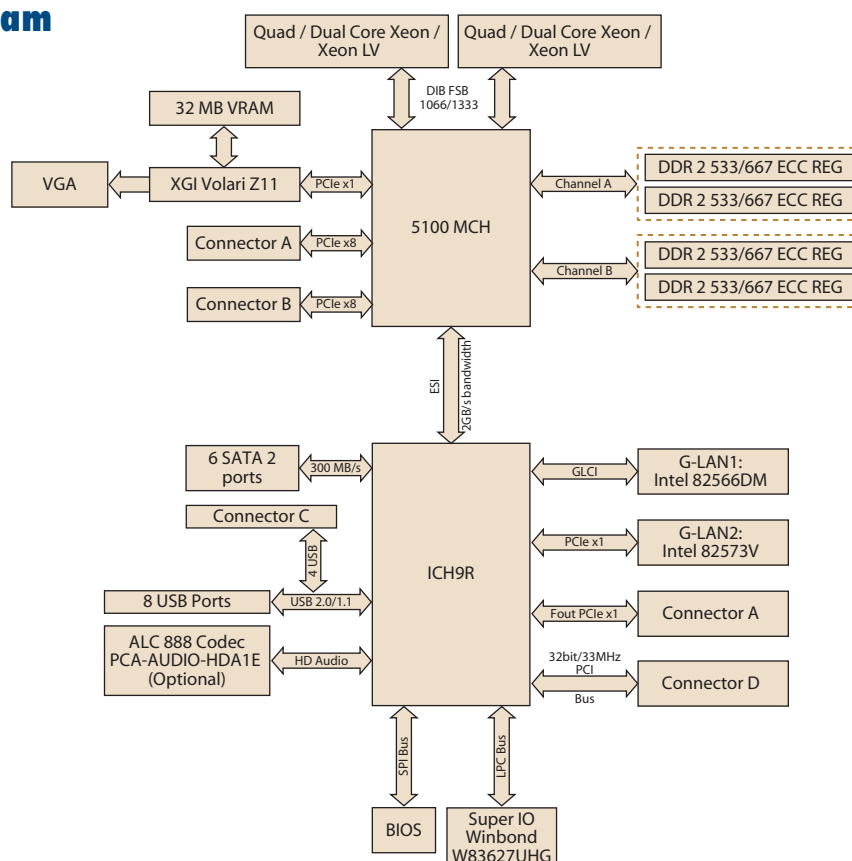
Note: Purchasing PCE-7214's proprietary CPU cooler(s) from Advantech is a must. Other brands' CPU coolers are NOT compatible with PCE-7214.



Specifications

Processor System	CPU	Quad Core Xeon			Dual Core Xeon		
	Number	3.16 GHz			3.33 GHz		
	L2 Cache	12 MB			6 MB		
	Chipset	Intel E5100 + ICH9R					
	BIOS	AMI 32 Mb SPI Flash					
	Front Side Bus	1333/1066 MHz					
Bus	PCIe	Two x 8/one x 16 & Four x 1 to backplane					
	PCI	Four 32-bit/33 MHz PCI Masters to backplane					
Memory	Technology	Dual-channel DDR2 533/667 MHz Registered ECC DIMMs					
	Max. Capacity	32 GB					
	Socket	240-pin DIMM x 4					
Graphics	External Card	PCIe x16 Graphics Card (The two x8 can be configured to one x16)					
	Onboard Chipset	XGI Volari Z11 via PCIe x1 Link					
	VRAM	32 MB					
	Video Output	15-pin D-sub Connector x1					
Ethernet	Interface	10/100/1000 Mbps					
	Controller	LAN1: Intel 82566DM LAN2: Intel 82573V					
	Connector	RJ-45 with LED Connector x 2					
SATA2	Max. Data Transfer Rate	300 MB/s					
	Channel	6 on SHB; support S/W RAID 0, 1, 10, 5					
EIDE	Mode	ATA 100/66/33					
	Channel	1 (supports up to 2 IDE devices)					
I/O Interface	USB 2.0	8 ports on the SHB, 4 ports to the BP					
	Serial	2 RS-232 with pin headers					
	Parallel	1 (EPP/ECP)					
	FDD	1					
	PS/2	1 (for mouse and keyboard, an Y cable is included in the package)					
Watchdog Timer	Output	System reset					
	Interval	Programmable, 1~255 sec/min					
Miscellaneous	Audio Output	Intel High Definition audio interface (requires an audio extension module P/N: PCA-AUDIO-HDA1E)					
Power Requirement	CPU	Configuration 1: Intel Xeon Processor 5130 2.0 GHz (SLAGC), TDP 65W x 2					
	Memory	4 GB DDR2 667 MHz with REG & ECC x 4					
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5 V
	Current	9.7 A	7.4 A	2.5 A	0.71 A	0 A	0 A
	CPU	Configuration 2: Intel Dual Xeon Processor 5450 3.0 GHz (SLAGC), TDP 80W x 2					
	Memory	4 GB DDR2 667 MHz with REG & ECC x 4					
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5 V
	Current	16.12 A	7.31 A	2.76 A	0.73 A	0 A	0 A
Environment		Operating			Non-Operating (Storage)		
	Temperature	0 ~ 60° C (32 ~ 140° F) (operation humidity: 40° C @ 85% RH Non-Condensing)			-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing		
Physical	Dimensions	338.58 mm (L) x 126.39 mm (W) (13.3" x 4.98")					

Board Diagram



Ordering Information

Part Number	Gigabit LAN	VGA
PCE-7214G2-00A1E	Dual	Yes

Bracket View



PCE-7214G2-00A1E

Packing List

Part Number	Description	Quantity
1700340640	FDD cable	x 1
1701400452	Ultra ATA 66/100 HDD cable	x 2
1700003194	Serial ATA HDD data cable	x 2
1703150102	Serial ATA HDD power cable	x 2
1701260305	Printer + COM cable	x 1
1700060202	Y-cable for PS/2 keyboard and mouse	x 1
1700008461	4-port USB cable kit	x 1
9689000068	Jumper pack	x 1
2002721020	User note for full-sized CPU card	x 1
2190000902	Warranty card	x 1
2002721410	Startup manual	x 1
2062721400	Utility CD	x 1

Optional Accessories

Part Number	Description
1750000282	Xeon CPU Cooler for 110W TDP CPU
1750001660	Low Profile Xeon CPU Cooler for 55W TDP CPU
PCA-AUDIO-HDA1E	Audio extension module
1701092300	Single COM Cable Kit

Note: Purchasing PCE-7214's proprietary CPU cooler(s) from Advantech is a must. Other brands' CPU coolers are NOT compatible with PCE-7214.