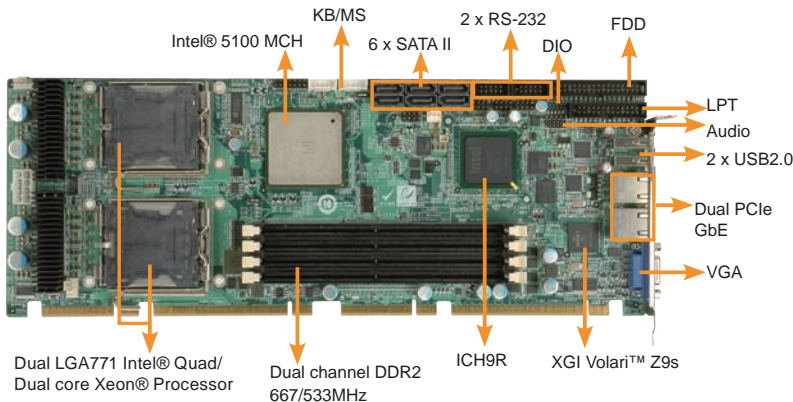
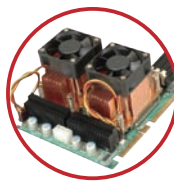


SPCIE-5100DX

Full Size PICMG1.3 CPU card supports dual socket LGA 771 Intel® Xeon® processors and comes with VGA, Dual GbE, SATA II with RAID function, USB 2.0



CPU Cooler
(PN:19100-000110-00-RS)



Specifications

- ◆ CPU
 - Dual-Core Intel® Xeon® processor 5100/5200 series CPU with a 1333/1066MHz FSB
 - Quad-Core Intel® Xeon® processor 5300/5400 series CPU with a 1333/1066MHz FSB
 - Processor Package: LGA771 (Socket J)
- ◆ System Chipset
 - Intel® 5100 MCH (San Clemente) + ICH9R chipsets
- ◆ BIOS
 - AMI Flash BIOS
- ◆ System Memory
 - Four 240-pin 667/533 MHz dual-channel DDR2 ECC Registered DIMM supported (system max. 32GB)
- ◆ Ethernet
 - Dual PCIe Ethernet support by Intel® 82574L GbE
- ◆ I/O Interface
 - 2 x RS-232
 - 12 x USB 2.0
(Two on the bracket, six on board and four on backplane by pin header)
 - 6 x SATA II with RAID 0,1, 5 and 10
 - 1 x LPT
 - 1 x FDD
 - 2 x 5-pin header for KB/MS
- ◆ Digital I/O
 - 8 bit digital I/O, 4-bit input/ 4-bit output
- ◆ Infrared
 - 1 x Infrared by pin header
- ◆ Super I/O
 - ITE IT8718F
- ◆ Display Interface
 - D-sub analog output via XGI Volari™ Z9s PCI graphic controller integrated 64MB DDR memory
 - Supported resolution up to UXGA(1600x1200) and CRT hot plug
- ◆ Audio
 - 7.1 channel HD audio kit with Realtek ALC883 codec supports dual audio streams
- ◆ Watchdog Timer
 - Software programmable supports 1 ~255 sec. System reset
- ◆ Power Supply
 - ATX Power
- ◆ Power consumption
 - 3.3V@1.07A, 5V@5.55A, 12V@12.3A (Dual Intel® Xeon® 5110 1.6GHz processor with 8GB DDR2 667MHz)
- ◆ Temperature
 - operation: 0°C ~ 60°C (32°F ~ 140°F)
 - operation: 0°C ~ 55°C (For 80W CPU limitation)
- ◆ Humidity
 - operation: 5% ~95% non-condensing
- ◆ Dimensions
 - 338 mm x 126 mm
- ◆ Weight
 - GW: 1500 g / NW: 1200 g

Intel® Xeon® processor suggestion table

Processor	Number	Process	Clock Speed (GHz)	FSB(MHz)	L2 Cache	TDP	Cores
L5430	45nm	2.66GHz	1333MHz	12MB	50W	4	
L5420	45nm	2.5GHz	1333MHz	12MB	50W	4	
L5410	45nm	2.33GHz	1333MHz	12MB	50W	4	
L5408	45nm	2.13GHz	1066MHz	12MB	40W	4	
L5320	65nm	1.86GHz	1066MHz	8MB	50W	4	
L5318	65nm	1.6GHz	1066MHz	8MB	45W	4	
L5310	65nm	1.6GHz	1066MHz	8MB	50W	4	
L5248	45nm	3.0GHz	1333MHz	6MB	55W	2	
L5240	45nm	3.0GHz	1333MHz	6MB	40W	2	
L5238	45nm	2.66GHz	1333MHz	6MB	35W	2	
L5215	45nm	1.86GHz	1066MHz	6MB	20W	2	
E5450	45nm	3.0GHz	1333MHz	12MB	80W	4	
E5440	45nm	2.83GHz	1333MHz	12MB	80W	4	
E5410	45nm	2.33GHz	1333MHz	12MB	80W	4	
E5405	45nm	2.0GHz	1333MHz	12MB	80W	4	
E5345	65nm	2.33GHz	1333MHz	8MB	80W	4	
E5335	65nm	2.0GHz	1333MHz	8MB	80W	4	
E5320	65nm	1.86GHz	1066MHz	8MB	80W	4	
E5310	65nm	1.6GHz	1066MHz	8MB	80W	4	
E5240	45nm	3.0GHz	1333MHz	6MB	40W	2	
E5220	45nm	2.33GHz	1333MHz	6MB	65W	2	
E5205	65nm	1.86GHz	1066MHz	6MB	65W	2	
E5160	65nm	3.0GHz	1333MHz	4MB	80W	2	
E5150	65nm	2.66GHz	1333MHz	4MB	65W	2	
5148	65nm	2.33GHz	1333MHz	4MB	40W	2	
5140	65nm	2.33GHz	1333MHz	4MB	65W	2	
5138	65nm	2.13GHz	1066MHz	4MB	35W	2	
5130	65nm	2.0GHz	1333MHz	4MB	65W	2	
5128	65nm	1.86GHz	1066MHz	4MB	40W	2	
5120	65nm	1.86GHz	1066MHz	4MB	40W	2	
5110	65nm	1.8GHz	1066MHz	4MB	65W	2	

Yellow means long-term support

Intel® Matrix
Storage Manager



FSB1333

Dual DDR2
667

ECC Support

Features

1. PICMG1.3 Full Size CPU Card with Intel® 5100 server grade chipset solution
2. Dual LGA 771 Intel® Quad/Dual core Xeon® processor with a 1333MHz FSB
3. Intel® 5100 server-grade platform supports six PCIe x4 lanes for flexible PCIe application
4. ULV XGI Volari Z9s Graphic controller support VGA output
5. Four 240-pin DDR2 ECC Registered DIMM supported up to 32GB
6. Six SATA II with RAID function improved performance and reliability for systems

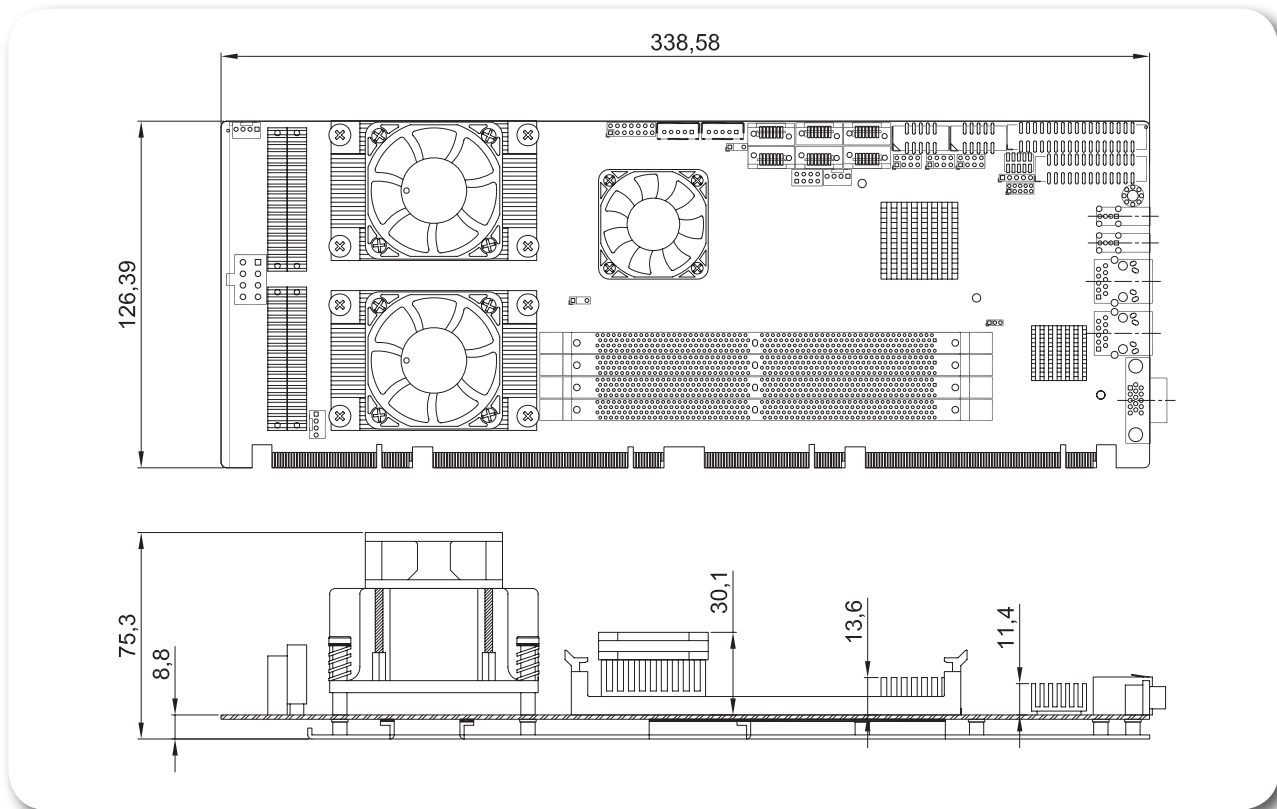
Packing List

- 1 x SPCIE-5100DX single board computer
- 1 x Mini jumper pack
- 6 x SATA cable (P/N: 32000-062800-RS)
- 1 x Dual RS-232 cable (P/N: 19800-000051-RS)
- 1 x Dual USB cable (P/N: CB-USB02-RS)
- 2 x LGA771 CPU cooler(P/N:19100-000110-00-RS)
- 1 x SBC support Bracket
- 1 x Utility CD
- 1 x QIG

Ordering Information

Part No.	Description
SPCIE-5100DX-R10	Full Size PICMG1.3 Server Grade CPU Card supports Dual Intel Xeon Dual/Quad core processors, Intel 5100 and ICH9R with VGA, Dual GbE, USB and SATA RAID
AC-KIT883HD-R10	7.1 Channel HD Audio Kit with Realtek ALC883 support dual audio streams
32200-000017-RS	FDD cable
19800-000049-RS	LPT cable
19800-000066-RS	KB/MS cable with bracket
32100-088600-RS	SATA power cable
32102-000100-100-RS	
32102-000100-200-RS	

SPCIE-5100DX Dimensions



PICMG1.3 Server Grade System Solution

There are some limitations for certain expansion slots when the SPCIE-5100DX is installed on the backplane. Please see the section below table for more details.

Model	Total Slots	System	Expansion Slots					System Type
			PCIe			PCI-X	PCI	
			x8	x4	x1			
SPE-4S	4	One	2*	1	-	-	-	Single
SPE-6S	6	One	-	5*	-	-	-	Single
SPE-9S	9	One	2*	3	-	-	3	Single
SPXE-9S	9	One	2*	2	-	2	2	Single
SPXE-14S	14	One	1*	-	12*	-	-	Single

The limitations for certain expansions slots on the backplanes when installed with SPCIE-5100DX are listed below.

Backplanes	Slot Label	Limitation
SPE-4S	PCIEX8_1	The length of the expansion card installed in this PCIe x8 slot should be less than 21cm.
SPE-6S	PCIEX4_1 PCIEX4_2	The length of the expansion card installed in these two PCIe x4 slots should be less than 21cm.
SPE-9S	PCIEX8_1	This PCIe x8 slot is not supported by the SPCIE-5100DX
SPXE-9S	PCIEX8_1	This PCIe x8 slot is not supported by the SPCIE-5100DX
SPXE-14S	PCIEX1_A1 PCIEX8_1	This PCIe x1 slot is not supported by the SPCIE-5100DX The length of the expansion card installed in this PCIe x8 slot should be less than 21cm.