

KGPE-D16 specifications summary

Processor Support / System Bus		2 x socket G34 (LGA 1944) 4/8/12/16 Core AMD® Opteron™ 6300 Series 4/8/12/16 Core AMD® Opteron™ 6200 Series 8/12 Core AMD® Opteron™ 6100 Series * Please check http://www.asus.com/server_workstation/ for the latest update HyperTransport™ Technology 3.0, 6.4 GT/s per link (triple link)
Core Logic		Northbridge: AMD® SR5690 Southbridge: AMD® SP5100
Form Factor		SSI EEB, 12" x 13"
ASUS Features	Fan Speed Control	V
	Rack Ready (Rack and Pedestal dual use)	V
Memory	Total Slots	16 (4-channel per CPU)
	Capacity	Maximum up to 256GB (RDIMM) Maximum up to 64GB (UDIMM)
	Memory Type	DDR3 800/1066/1333/1600 UDIMM with ECC / non ECC DDR3 800/1066/1333/1600 RDIMM * DDR3 1600 can only be supported with AMD® Opteron™ 6300/6200 series processor
	Memory Size	1GB, 2GB, 4GB, 8GB, 16GB (RDIMM) 1GB, 2GB, 4GB (UDIMM)
Expansion Slots (follow SSI Location #)	Total PCI/PCI-X/PCI-E Slots	6
	Slot Location 1	1 x PCI 32bit/33 MHz
	Slot Location 2	1 x PCI-E x16 (Gen2 x8 Link)
	Slot Location 3	1 x PCI-E x16 (Gen2 x16 Link) (Auto switch to x8 Link if slot 2 is occupied)
	Slot Location 4	1 x PCI-E x8 (Gen2 x4 Link)
	Slot Location 5	1 x PCI-E x16 (Gen2 x16 Link)
	Slot Location 6	1 x PCI-E x16 (Gen2 x16 Link for 1U FH/FL Card) (Auto turn off if slot 5 is occupied; MIO supported)
	Additional Slot 1	1* PIKE Slot for Storage expansion

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Storage	SATA Controller	AMD® SP5100: 6 SATA2 300MB/s ports PROMISE® SW RAID (For Linux/Windows) Supports software RAID 0, 1, 10 & 5
	SAS Controller	Optional: ASUS PIKE 1064E 4-port SAS RAID card ASUS PIKE 1068E 8-port SAS RAID card ASUS PIKE 1078 8-port SAS HW RAID card ASUS PIKE 6480 8-port SAS RAID card ASUS PIKE 2008 8-port SAS2 6G RAID card ASUS PIKE 2008/IMR 8-port SAS2 6G RAID card with RAID 5
Networking	LAN	2 x Intel 82574L 1 x Mgmt LAN
Graphic	VGA	Aspeed AST2050 8MB
Onboard I/O Connectors	PSU Connector	24-pin SSI power connector + 8-pin SSI 12V + 8-pin SSI 12V power connector
	USB Connectors	4 (support 7 USB port) (One for internal Type A USB connector)
	Management Connector	Onboard socket for optional management card
	Fan Header	8 x 4pin
	SMBus	2
	Chassis Intruder	1
	Serial Port Header	1
	TPM Header	1
	1394 Header	1
Rear I/O Connectors	External Serial Port	1
	External USB Port	2
	VGA Port	1
	RJ-45	2 + 1 Management Port
	PS/2 KB/Mouse	1

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