TYAN

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SINGLE-SOCKET SERVER PLATFORM



S8228

S8228GM3NR

OPTERON PROCESSOR AMD | 32nm | 6 Six Core | 8 Core | HT3 HyperTransport 3.0 | DDR3



■ AMD Opteron™ 4100/4200 series

High-density dual-socket server platform for IPDC environment

- Dual C32 sockets support up to (2) AMD Opteron™ 4100/4200 series processors (Lisbon/Valencia)
- Support (2) HyperTransport™ 3.0 link, max. bandwidth up to 25.6 GB/s @ 6.4GT/s per link
- AMD SR5650 + SP5100
- (12) 240-pin DDR3 DIMM slots support up to 96GB R-DDR3 1333/1066/800MHz w/ ECC memory
- (1) PCI-E Gen.2 x16 slot
- (4) SATA-II connectors w/ RAID 0, 1, 10, 5 support
- (3) GbE LAN
- Onboard BMC w/ IPMI and iKVM support
- SFF (6.3" x 16.4") form factor

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

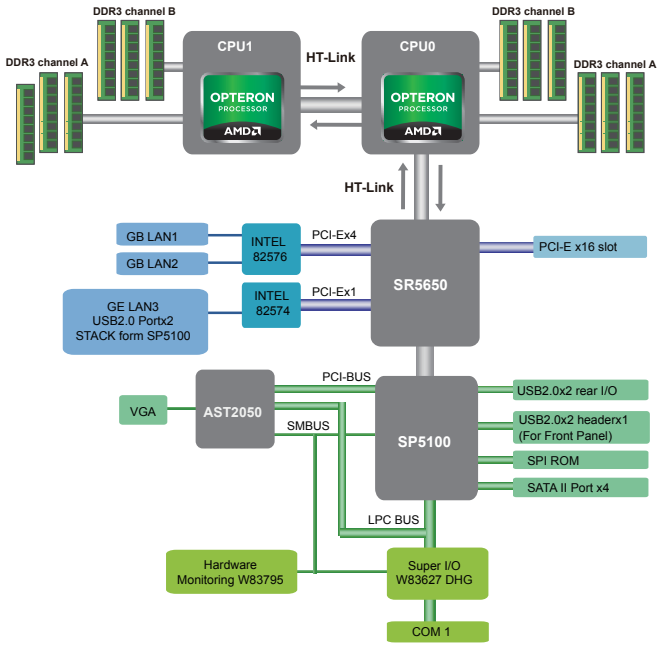
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TYAN Specifications

Processor	Supported CPU Series		AMD Opteron™ 4100/4200 series processors
	Socket Type / Q'ty		C32 / (2)
	Average CPU Power (ACP) wattage		Max. up to 75W
	System Bus		Support (2) HyperTransport™ 3.0 link, max. bandwidth up to 25.6 GB/s @ 6.4GT/s per link
Chipset	Chipset		AMD SR5650 + SP5100
	Super I/O		Winbond W83627DHG-P
Memory	Supported DIMM Qty		(6+6) DIMM sockets
	DIMM Type / Speed		DDR3 1333/1066/800 RDIMM
	Capacity		Up to 96GB RDIMM
	Memory channel		4 Channels (2 Channels per CPU)
	Memory voltage		1.5V
Expansion Slots	PCI-E		(1) PCI-E Gen.2 x16 slot
	Recommended TYAN® Riser Card		M7018-R16-1L, PCI-E x16 1U riser card (right)
LAN	Port Q'ty		(3)
	Controller		Intel® 82576EB Intel® 82574L
	SATA	Connector	(4)
		Controller	AMD SP5100
		Speed	3.0 Gb/s
		RAID	RAID 0/1/10/5 (AMD/ Promise RAID stack)
Graphic	Connector type		D-Sub 15-pin
	Resolution		1600x1200@60Hz
	Chipset		Aspeed AST2050
Input /Output	USB		(5) USB2.0 ports (2 at rear, 2 via cable, 1 type A onboard)
	COM		(2) ports (1 at rear, 1 via cable)
	VGA		(1) D-Sub 15-pin VGA port
	RJ-45		(3) GbE ports
	Power		Proprietary 20-pin (12V single input) power connector
	Front Panel		(1) 2x12 pin SSI front panel header
	SATA		(4) SATA-II connectors
System Monitoring	Chipset		Winbond W83795G
	Voltage		Monitors voltage for CPU, memory, chipset & power supply
	Fan		Total (3) 8-pin headers
	Temperature		Monitors temperature for CPU & system environment
	Others		Chassis intrusion detection Watchdog timer support
Server Management	Onboard Chipset		Onboard Aspeed AST2050
	AST2050 IPMI Feature		IPMI 2.0 compliant baseboard management controller (BMC) BIOS update USB 2.0 virtual hub
	AST2050 iKVM Feature		24-bit high quality video compression Dual 10/100 Mb/s MAC interfaces

Block Diagram



BIOS	Brand / ROM size	AMI / 4MB
	Feature	Plug and Play (PnP)/ PCI 2.3 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
Form Factor	Form Factor	TYAN SFF
	Board Dimension	6.3"x16.4" (160.02x416.56mm)
Operating 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

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