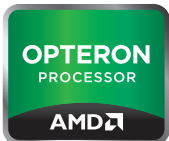


HIGH-DENSITY 1U SERVER PLATFORM



YR190-B8228-X2

B8228Y190X2-045V4H



■ Front View



■ Back View



High-Density 1U dual-socket SMP server implementation for IPDC applications

- 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) HH/HL PCI-E (Gen.2) x16 slot
- (3) GbE LAN
- (4) Hot-swap 2.5" SATA-II HDDs w/ RAID 0, 1, 10, 5 support
- Onboard BMC w/ IPMI and iKVM support
- (1) ERP1U high-efficiency 450W PSU w/ PFC, 80-PLUS Silver Certified



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Top View

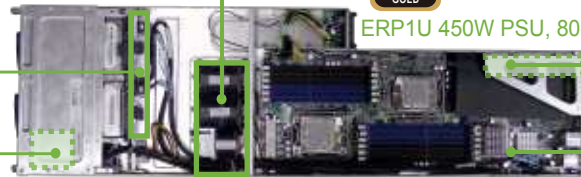
Easy-swap System FANs
(2) 4056 + (1) 4028

M7018-BP
BP4-port SAS/SATA-II
HDD backplane board

M5376-FPB
Integrated front panel board



ERP1U 450W PSU, 80-PLUS Silver



M7018-R16-1L
Provide (1) low-profile
PCI-E (Gen. 2) x16 slot Rear View

S8228GM3NR
(2) C32 sockets
(6+6) R-DDR3 1333/1066/800MHz
Max.96GB, (3) GbEports,
Legacy-free Rear I/O

System	Form Factor	1U Rackmount Frame w/ 2x 1U blades	Graphic (per blade)	Connector type	D-Sub 15-pin	
	Chassis Name	YR190		Resolution	1600x1200@60Hz	
	Dimension (H x W x D)	1.72" x 17.32" x 28.74" (43.6 x 440 x 730mm)		Chipset	Aspeed AST2050	
	Motherboard	S8228GM3NR		Input / Output (per blade)	USB	(5) USB2.0 ports (2 at rear, 2 at front, 1 type A onboard)
	Gross Weight	25 kg (w/ 2 blades installed)			COM	(1) DB-9 port
Buttons	(1) RST / (1) ID / (1) PWR	VGA	(1) D-Sub 15-pin VGA port			
Front Panel (per blade)	LEDs	(1) Power / (1) BMC / (2) LAN / (1) HDD	RJ-45	(3) GbE ports		
	I/O Ports	(2) USB ports	System Monitoring (per blade)	Chipset	Winbond W83795G	
External Drive Bay (per blade)	Type / Q'ty	2.5" Hot-Swap / (4)		Voltage	Monitors voltage for CPU, memory, chipset & power supply	
	Supported HDD Interface	SAS 3.0Gb/s (via HBA) SATA-II 3.0Gb/s		Temperature	Monitors temperature for CPU & system environment	
System Cooling Configuration (per blade)	FAN	(3) 4cm fans		LED (On system front panel)	Fan fail LED indicator Over temperature warning indicator	
				Others	Watchdog timer support	
Power Supply (per blade)	Type	ERP1U cold-swap	Server Management (per blade)	Onboard Chipset	Onboard Aspeed AST2050	
	Input Range	Full-range AC(100-240V)		AST2050 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) BIOS update USB 2.0 virtual hub	
	Frequency	47 - 63 Hertz		AST2050 iKVM Feature	24-bit high quality video compression Dual 10/100 Mb/s MAC interfaces	
	Output Watts	450 Watts		Brand / ROM size	AMI / 4MB	
Processor (per blade)	Efficiency	PFC / 80-plus Silver	BIOS (per blade)	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	
	Supported CPU Series	AMD Opteron™ 4100/4200 series processors				
	Socket Type / Q'ty	C32 / (2)				
Chipset (per blade)	Average CPU Power (ACP) wattage	Up to 50W	Operating System	OS supported list	Please refer to our OS supported list.	
	System Bus	Support (2) HyperTransport™ 3.0 link, max. bandwidth up to 25.6 GB/s @ 6.4GT/s per link	Regulation	FCC (DoC)	Class A	
Chipset	AMD SR5650 + SP5100	CE (DoC)		Yes		
Memory (per blade)	Supported DIMM Qty	(6+6) DIMM slots	Operating Environment	Operating Temp.	10° C ~ 35° C (50° F~ 95° F)	
	DIMM Type / Speed	DDR3 1333/1066/800 RDIMM		Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)	
	Capacity	Up to 96GB RDIMM	RoHS	In/Non-operating Humidity	90%, non-condensing at 35° C	
	Memory channel	4 Channels (2 Channels per CPU)		RoHS 6/6 Compliant	Yes	
Expansion Slots (per blade)	Memory voltage	1.5V / 1.35V				
	PCI-E	(1) Low-Profile PCI-E Gen.2 x16 slot				
LAN (per blade)	Pre-installed TYAN Riser Card	M7018-R16-1L, PCI-E x16 1U riser card (right)				
	Port Q'ty	(3)				
Storage (per blade)	Controller	Intel® 82576EB				
		Intel® 82574L				
Storage (per blade)	Speed	AMD SP5100				
		3.0 Gb/s				

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

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