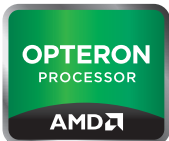


HIGH-DENSITY 1U SERVER PLATFORM



YR190-B8238-X2

B8238Y190X2-045V4HI (BTO) / B8238Y190X2-045V4H-LE (BTO)



■ Front View

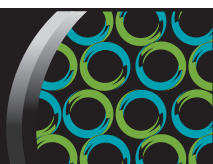


■ Back View



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

- Dual G34 sockets support up to (2) AMD Opteron™ 6100/6200 series processors (Magny-Cours/Interlagos)
- Support (4) HyperTransport™ 3.0 link, max. bandwidth up to 25.6 GB/s @ 6.4GT/s per link
- AMD SR5670 + SP5100 (B8238Y190X2-045V4HI)
- AMD SR5650 + SP5100 (B8238Y190X2-045V4H-LE)
- (12) 240-pin DDR3 DIMM slots support up to 128GB R-DDR3 1333/1066/800MHz w/ ECC memory
- (1) HH/HL PCI-E (Gen.2) x16 slot
- (2) GbE LAN
- (1) QDR InfiniBand (B8238Y190X2-045V4HI)
- (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



YR190-B8238-X2

B8238Y190X2-045V4HI (BTO) / B8238Y190X2-045V4H-LE (BTO)

TYAN
Specifications

Top View

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

M7018-BP-B8238-SG
4-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

S8238GM2NRI
(8+4) R-DDR3 1333/1066/800MHz
Max.96GB
(1) QSFP port, Legacy-free Rear I/O

System	Form Factor	1U Rackmount Frame w/ 2x 1U blades	Storage (per blade)	SATA	Controller Speed	AMD SP5100
	Chassis Name	YR190				3.0 Gb/s
	Dimension (H x W x D)	1.72" x 17.32" x 28.74" (43.6 x 440 x 730mm)	Graphic (per blade)	Connector type		D-Sub 15-pin
	Motherboard	S8238GM2NRI S8238GM2NR-LE		Resolution	1600x1200@60Hz	
Front Panel (per blade)	Gross Weight	25 kg (w/ 2 blades installed)	Input / Output (per blade)	Chipset	Aspeed AST2050	
	Buttons	(1) RST / (1) ID / (1) PWR		USB	(5) USB2.0 ports (2 at rear, 2 at front, 1 type A onboard)	
	LEDs	(1) Power / (1) BMC / (2) LAN / (1) HDD		COM	(1) DB-9 port	
External Drive Bay (per blade)	I/O Ports	(2) USB ports	System Monitoring (per blade)	VGA	(1) D-Sub 15-pin VGA port	
	Type / Q'ty	2.5" Hot-Swap / (4)		RJ-45	(3) GbE ports	
System Cooling Configuration (per blade)	Supported HDD Interface	SAS 3.0Gb/s (via HBA) SATA-II 3.0Gb/s	Server Management (per blade)	InfiniBand	(1) QDR IB port	
	FAN	(3) 4cm fans		Chipset	Winbond W83795G	
Power Supply (per blade)	Type	ERP1U cold-swap	BIOS (per blade)	Voltage	Monitors voltage for CPU, memory, chipset & power supply	
	Input Range	Full-range AC(100-240V)		Temperature	Monitors temperature for CPU & system environment	
	Frequency	47 - 63 Hertz	Operating System	LED (On system front panel)	Fan fail LED indicator Over temperature warning indicator	
	Output Watts	450 Watts		Others	Watchdog timer support	
Processor (per blade)	Efficiency	PFC / 80-plus Silver	Expansion Slots (per blade)	Onboard Chipset	Onboard Aspeed AST2050	
	Supported CPU Series	AMD Opteron™ 6100/6200 series processors		Feature	AST2050 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) BIOS update USB 2.0 virtual hub
	Socket Type / Q'ty	G34 / (2)	AST2050 iKVM Feature		24-bit high quality video compression Dual 10/100 Mb/s MAC interfaces	
	Average CPU Power (ACP) wattage	Up to 65W	Memory (per blade)	Brand / ROM size	AMI / 4MB	
System Bus	Support (4) HyperTransport™ 3.0 link, max. bandwidth up to 25.6 GB/s @ 6.4GT/s per link	OS supported list		Please refer to our OS supported list.		
Chipset (per blade)	Chipset	AMD SR5670 + SP5100 (S8238GM2NRI) AMD SR5650 + SP5100 (S8238GM2NR-LE)	Regulation	FCC (DoC)	Class A	
	Supported DIMM Qty	(8+4) DIMM slots		CE (DoC)	Yes	
Memory (per blade)	DIMM Type / Speed	DDR3 1333/1066/800 RDIMM	Operating Environment	Operating Temp.	10° C ~ 35° C (50° F ~ 95° F)	
	Capacity	Up to 128GB RDIMM		Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)	
	Memory channel	8 Channels (4 Channels per CPU)	InfiniBand (per blade)	In/Non-operating Humidity	90%, non-condensing at 35° C	
Memory voltage	1.5V / 1.35V	Controller		Mellanox ConnectX®-2 MT25408A0-FCCR-QIS (B8238Y190X2-045V4HI)		
Expansion Slots (per blade)	PCI-E	(1) Low-Profile PCI-E Gen.2 x16 slot	RoHS	RoHS 6/6 Compliant	Yes	
	Pre-installed TYAN Riser Card	M7018-R16-1L, PCI-E x16 1U riser card (right)	(Specifications are subject to change without notice. Items pictured may only be representative.)			
LAN (per blade)	Port Q'ty	(2)				
	Controller	Intel® 82574L				

MITAC INTERNATIONAL CORP.

TYAN Business Unit

USA
Tel: +1-510-651-8868
Fax: +1-510-651-7688

Taiwan
Tel: +886-2-2652-5888
Fax: +886-2-2652-5805

Japan
Tel: +81-3-3769-8311
Fax: +81-3-3769-8328

Europe
Sales: +32 2456 1721
Technical Support: +32 2456 1722

China
Shanghai Tel: +86-21-61431188 Ext 1366
China Tel: +86-010-62555015 Ext 8302