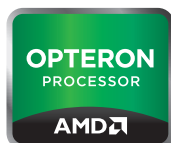


HIGH-DENSITY 1U SERVER PLATFORM



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
	Chassis Name	YR190
	Dimension (H x W x D)	1.72" x 17.32" x 28.74" (43.6 x 440 x 730mm)
	Motherboard	S8238GM2NRI S8238GM2NR-LE
	Gross Weight	25 kg (w/ 2 blades installed)
Front Panel (per blade)	Buttons	(1) RST / (1) ID / (1) PWR
	LEDs	(1) Power / (1) BMC / (2) LAN / (1) HDD
	I/O Ports	(2) USB ports
External Drive Bay (per blade)	Type / Q'ty	2.5" Hot-Swap / (4)
	Supported HDD Interface	SAS 3.0Gb/s (via HBA) SATA-II 3.0Gb/s
System Cooling Configuration (per blade)	FAN	(3) 4cm fans
Power Supply (per blade)	Type	ERP1U cold-swap
	Input Range	Full-range AC(100-240V)
	Frequency	47 - 63 Hertz
	Output Watts	450 Watts
Processor (per blade)	Efficiency	PFC / 80-plus Silver
	Supported CPU Series	AMD Opteron™ 6100/6200 series processors
	Socket Type / Q'ty	G34 / (2)
	Average CPU Power (ACP) wattage	Up to 65W
Chipset (per blade)	System Bus	Support (4) HyperTransport™ 3.0 link, max. bandwidth up to 25.6 GB/s @ 6.4GT/s per link
	Chipset	AMD SR5670 + SP5100 (S8238GM2NRI) AMD SR5650 + SP5100 (S8238GM2NR-LE)
Memory (per blade)	Supported DIMM Qty	(8+4) DIMM slots
	DIMM Type / Speed	DDR3 1333/1066/800 RDIMM
	Capacity	Up to 128GB RDIMM
	Memory channel	8 Channels (4 Channels per CPU)
Expansion Slots (per blade)	Memory voltage	1.5V / 1.35V
	PCI-E	(1) Low-Profile PCI-E Gen.2 x16 slot
	Pre-installed TYAN Riser Card	M7018-R16-1L, PCI-E x16 1U riser card (right)
LAN (per blade)	Port Q'ty	(2)
	Controller	Intel® 82574L
InfiniBand (per blade)	Port Q'ty	(1)
	Controller	Mellanox ConnectX®-2 MT25408A0-FCCR-QIS (B8238Y190X2-045V4HI)

Storage (per blade)	SATA	Controller	AMD SP5100
		Speed	3.0 Gb/s
Graphic (per blade)	Connector type	D-Sub 15-pin	
	Resolution	1600x1200@60Hz	
	Chipset	Aspeed AST2050	
Input / Output (per blade)	USB	(5) USB2.0 ports (2 at rear, 2 at front, 1 type A onboard)	
	COM	(1) DB-9 port	
	VGA	(1) D-Sub 15-pin VGA port	
	RJ-45	(3) GbE ports	
	InfiniBand	(1) QDR IB port	
System Monitoring (per blade)	Chipset	Winbond W83795G	
	Voltage	Monitors voltage for CPU, memory, chipset & power supply	
	Temperature	Monitors temperature for CPU & system environment	
	LED (On system front panel)	Fan fail LED indicator Over temperature warning indicator	
	Others	Watchdog timer support	
Server Management (per blade)	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	
BIOS (per blade)	Brand / ROM size	AMI / 4MB	
	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	
Operating System	OS supported list	Please refer to our OS supported list.	
Regulation	FCC (DoC)	Class A	
	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 Compliant	Yes	

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

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