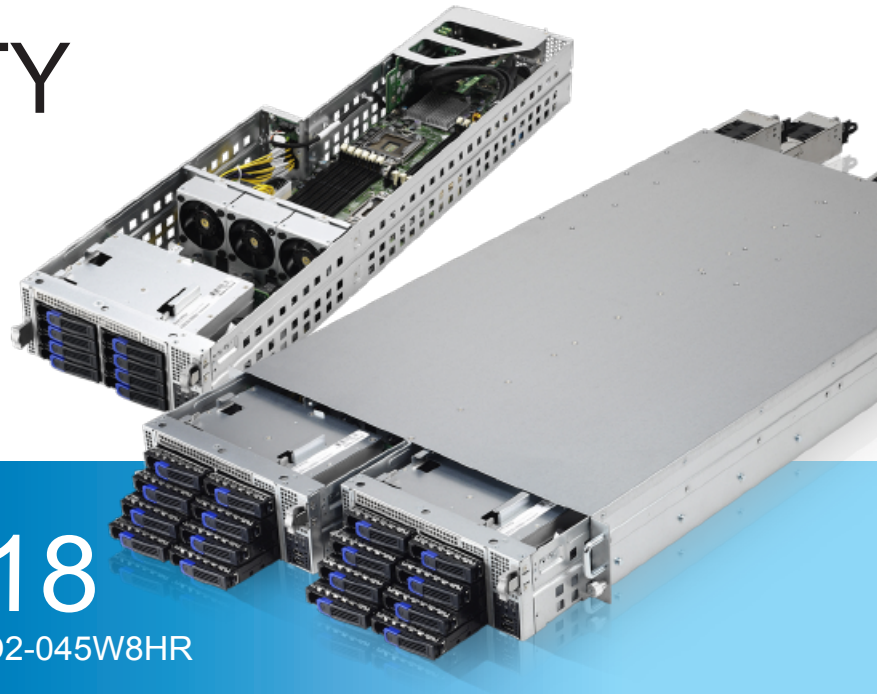
TYAN

www.tyan.com

HIGH-DENSITY 2U SERVER PLATFORM



YR290-B7018

B7018Y290D2-045V8H/ B7018Y290D2-045W8HR

■ Front View



■ Back View



High-Density 2U dual-socket SMP server implementation for IPDC and enterprise virtualization applications

- Dual LGA1366 sockets support up to (2) Intel® Xeon® processors 5500/5600 series (codenamed Nehalem-EP/Westmere-EP)
- Support QPI 6.4/ 5.86/ 4.8 GT/s
- Intel® 5500 IOH / Intel® ICH10R South Bridge
- (12) 240-pin DDR3 DIMM slots support up to 96GB R-DDR3 1333/1066/800MHz w/ ECC memory
- (2) Full-Height + (1) Low-Profile PCI-E (Gen.2) slots on 2U riser sharing (16) PCI-E lanes (B7018Y290D2-045V8H)
- (1) Full-Height + (1) Low-Profile PCI-E (Gen.2) slots on 2U riser (B7018Y290D2-045W8HR)
- (3) GbE LAN
- (8) Hot-swap 2.5" SATA-II HDDs. (Order separately for a 3rd party RAID adapter to enable full RAID functions) (B7018Y290D2-045V8H)
- (8) Hot-swap 2.5" SAS HDDs. (TYAN P3202 is pre-installed on B7018Y290D2-045W8HR)
- (Opt.) (1) ultra-slim ODD
- Onboard BMC w/ IPMI and iKVM support
- (1) Redundancy ready, ERP1U high-efficiency 450W PSU w/ PFC, 80-PLUS Silver Certified. (B7018Y290D2-045V8H)
- (1+1) Redundancy ready, ERP1U high-efficiency 450W PSU w/ PFC, 80-PLUS Silver Certified. (B7018Y290D2-045W8HR)

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

YR290-B7018

B7018Y290D2-045V8H/ B7018Y290D2-045W8HR

TYAN

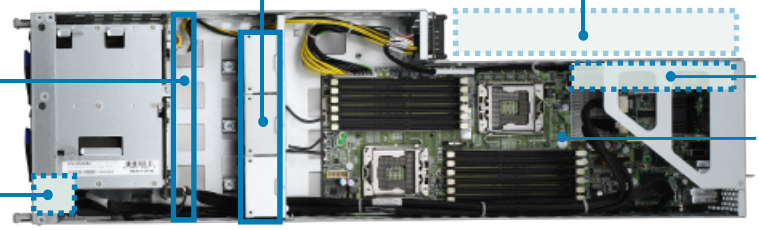
Specifications

Top View

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

M7018-BP2
8-port SAS/SATA-II
HDD backplane board w/
(2) SFF-8087 connectors

M5376-FPB
Integrated front panel board



(1+1) ERP1U 450W
PSU, 80-PLUS Silver

M7018-R16-2F1L
Provide (2) FH + (1) low-profile
PCI-E (Gen. 2) slots

S7018GM3NR
(2) LGA1366 sockets
(6+6) R-DDR3
1333/1066/800MHz
Max.96GB , (3) GbE ports,
Legacy-free Rear I/O

System	Form Factor		2U Rackmount Frame w/ 2x 1U blades
	Chassis Model		YR290
	Dimension (H x W x D)		3.42" x 17.32" x 28.74" (87 x 440 x 730mm)
	Motherboard		S7018GM3NR
	Gross Weight		30 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 discrete HBA/ RAID solution) SATA-II 3.0Gb/s
Peripherals (per blade)	Type of ODD / Q'ty (Opt.)		Ultra-slim DVD-ROM / (1)
System Cooling Configuration (per blade)	FAN		(3) 6cm fans
Power Supply (per blade)	Type		ERP1U hot-swap / (1+1)
	Input Range		Full-range AC(100-240V)
	Frequency		47 - 63 Hertz
	Output Watts		450 Watts
	Efficiency		PFC / 80-plus Silver
Processor (per blade)	Supported CPU Series		Intel® Xeon® processor 5500/5600 series
	Socket Type / Q'ty		LGA1366 / (2)
	Thermal Design Power (TDP) wattage		Max. up to 95W
	System Bus		Up to 4.8/ 5.86/ 6.4GT/s with Intel® QuickPath Interconnect (QPI) support
Chipset (per blade)	Chipset		Intel® 5500 / ICH10R
Memory (per blade)	Supported DIMM Qty		(6+6) DIMM slots
	DIMM Type / Speed		DDR3 800/1066/1333 RDIMM/UDIMM
	Capacity		Up to 96GB RDIMM / 48GB UDIMM
	Memory channel		6 Channels (3 Channels per CPU)
	Memory voltage		1.5V
Expansion Slots (per blade)	PCI-E (B7018Y290D2-045V8H)		(1) FH/HL PCI-E Gen.2 x16 slot (w/ x16 or x8 link) (1) FH/HL PCI-E Gen.2 x8 slot (w/ x0, x4, or x8 link) (1) HH/HL PCI-E Gen.2 slot (w/ x0 or x4 link)
	Pre-installed TYAN		M7018-R16-2F1L
	PCI-E (B7018Y290D2-045W8HR)		(1) FH/HL PCI-E Gen.2 x16 slot (w/ x8 link) (1) HH/HL PCI-E Gen.2 slot (w/ x4 link)
	Pre-installed TYAN		M7018-R16-1F1Y1L
LAN (per blade)	Port Q'ty		(3)
	Controller		Intel® 82576EB Intel® 82574L
Storage (per blade)	SAS	Controller	LSI SAS1068E on TYAN® P3202 HBA
		Speed	3.0 Gb/s
		RAID	RAID 0/1/1E (LSI integrated RAID)
Storage (per blade)	SATA	Controller	ICH10R
		Speed	3.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel® Matrix RAID)
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
System Monitoring (per blade)	Chipset		Winbond W83793G
	Voltage		Monitors voltage for CPU, memory, chipset & power supply
	Temperature		Monitors temperature for CPU & system environment
	LED (On system front		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 Complaint		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