CLEARCUBE

R3090D Blade PC WorkStation

Blade PC with Intel® 6th Generation Xeon®/Core™ i7, AMT 11.0, 64 GB RAM, and USB Type-C with USB 3.1

ClearCube® R3090D Blade PCs deliver powerful datacenter-to-desktop computing capabilities for the entire range of users in your organization. R3090D Blade PCs provide IT organizations with the ability to address the needs of VMware Horizon power users in VDI environments by utilizing the robust features of 6th-generation Intel® Xeon®, Core™ i7, and i5 series processors, the Intel C236 chipset (Skylake), 64 GB of DDR4 DIMMs, PCIe® graphics, and three Gigabit Ethernet connections.

Blade PCs also provide high-performance, dedicated 1:1 connectivity for Centralized Desktop Infrastructure (CDI) users for traditional desktop use cases (graphics applications, legacy apps, apps developed in-house, mission-critical apps, and so on) not possible with virtual desktops.

Offering the industry's highest rack density of eight Blade PCs in a 3U rack space, ClearCube employs advanced thermal designs and cooling to deliver the latest Intel desktop processors for power users. Blade-mounted fans and high-volume chassis fans provide ample cooling. The ClearCube architecture centralizes processing power in the datacenter so users get full multi-core performance without the heat or fan noise of traditional desktop PCs. Securing computing assets (data storage, memory, graphics cards) in the datacenter is a massive security benefit for every organization.

USB Type-C with USB 3.1 for Additional Video, Peripherals, and Storage

The R3090D brings the speed and versatility of USB 3.1 and USB Type-C connectors to Blade PCs. The USB Type-C connector on the R3090D front panel enables administrators to connect an additional display for diagnostics and maintenance, mass storage devices for imaging, or multiple USB peripherals, all from the same front-panel connector.

Benefits

-Powerful 1:1 performance	-Integrated PCoIP Host Card -USB 3.1 support -Up to 3 displays	-Intel ATM 11.0 -Xeon®, Core™ i7, and Core i5 CPUs	-Up to 64 GB RAM	-8 Blade PCs in 3U	TAA Compliant Assembled & tested in the USA

Full PC Experience-over-IP

Working with ClearCube Cloud Desktop fiber and copper zero clients, R309D Blade PCs support up to three displays with simultaneous full screen, full motion video, and full USB redirection over the network using the PCoIP protocol.

Perfect Complement to VDI Environments

R3090D provides IT organizations with the ability to address the needs of power, knowledge, and task users in VDI environments by seamlessly integrating into VMware virtual desktop environments. VMware Horizon and ClearCube Sentral management software broker connections between ClearCube PCoIP™ zero clients and R3090D blades, while Sentral also enables direct connect brokering between R3090Ds and zero clients.

By centralizing user Blade PCs, IT organizations achieve VDI- like benefits with high availability, ease of management and power efficiencies in a dense data-center-friendly solution.

teradici PCoIP®   Windows 10   Linux   Microsoft Remote Desktop Protocol   CITRIX®

Blade PC Workstation
Model R3090D

R4300 Chassis with 8 R3090D Blade PCs

Next-Generation Modules and C/Port Support

The R3090D is the next generation of ClearCube R-Series Blade PCs and provides features new to R-Series blades and chassis. The R3090D is backward compatible with previous generation blades and chassis, and previous generation blades.

When populating the R4300 Chassis with all R3090D Blades:

- Replace the R-Series chassis R4387 8 × 8 Connect Module (P/N G091068) with the PCoIP/USB Pass-through Module (P/N G0900388).
- Remove the R-Series chassis R4345 Remote Management Module (P/N G091070) and replace it with an RMM fill-in panel (G0900387).

When populating the R4300 Chassis with R3090D Blades and previous-generation blades:

- Replace the R-Series chassis R4387 8 × 8 Connect Module (P/N G091068) with the PCoIP/USB Pass-through Module (P/N G0900388)
- Remove the R-Series chassis R4345 Remote Management Module (P/N G091070) and replace it with an RMM Fill-in Panel (G0900387)
- For all blades Model R3090D and lower, upgrade the blade interposer card with a new interposer card (G0100186).

R3090D Blade PC Specifications

Form Factor	8 blades fit in single 3U chassis (standard 19" rack width)
Chipset	LGA1151 Intel C236 chipset
Processor	Intel® Xeon® processor E3-1200 v5 or Intel 6th Generation (Skylake) Core™ i7/i5
Memory Capacity/Type	Four DIMM sockets: DDR4, 1.2 V, unbuffered, non-ECC UDIMM at 2133 MHz
DIMM Sizes	8 GB/16 GB; with support up to 64 GB
Connections	Dual Gigabit Ethernet ports (Primary and Secondary)
	Three Gigabit Ethernet ports when in chassis (Dedicated PCoIP × 1, Standard Ethernet × 2)
	Thunderbolt 3 port on blade front panel
	USB 3.0 port on blade front panel (USB 2.0 port on R4300 chassis also accessible)
	Multi-function RGB LED indicator on blade front panel
GPU/Host Card Options	Dual monitor with V5420 PCoIP host card or
	Three monitors with V5430 host card (V5430 configuration prevents use of front-panel Thunderbolt connector)
Storage	Two drive slots. 1TB SSD, 500 GB HDD, or 480 GB SSD. Support RAID 0, 1 M.2 SSD
Dimensions	4.7" H x 23.5" D x 1.9" W (11.9 cm x 59.7 cm x 4.8 cm
Gross Weight	4 to 5 pounds, depending on configuration (1.8 to 2.3 kilograms)
Power Supply	205 W
AC Voltage	100-240 V, 50-60 Hz
Operating Temperature	Stationary office installation, 0° to 35° C
Operating Relative Humidity	10 to 90% (non-condensing)
Operating System	Microsoft® Windows 10
	No operating system (Linux® Ready)

Ordering Information

Call: (866) 652-3500 Email: sales@clearcube.com to order or for additional details.

Model Name	Part Number
R3090D	GR3090D