M1034W Blade PC WorkStation

ClearCube M1034W Powerhouse High-Performance Workstation

M1034W takes engineering workstation design to the highest level. M1034W features Dual Xeon® processors, with up to 512GB DDR4 RAM, up to four hot swap drives, and redundant power supplies.

M1034W combines the benefits of PCoIP host-side rendering with a CPU/GPU processing platform that is at the top of the performance charts. The end result at the desktop for the CAD/CAM designer is a small footprint, secure, noiseless, high resolution zero client that supports 2560 x 1600 resolutions at 60 frames per second. This zero client desktop device connects via IP over fiber or copper infrastructure to its dedicated 1:1 ClearCube M1034W host processing platform that is rack mounted in a 1U space in the secure datacenter.

For design teams that cannot afford downtime, M1034W’s unique additional advantage is offered by ClearCube Sentral Connection Broker software that provides blade pooling capabilities. By provisioning designated hot spare M1034Ws, Sentral can broker a connection from a zero client on the desktop to one or more standby resources in the datacenter (blade pooling) in the event of a primary resource failure. This valuable quick-return-to-service capability reduces the loss of expensive design time that may adversely impact time-critical schedules. Brokering software is also available using VMware Horizon.

Additionally, M1034W has built-in options for 10GbE copper ports and dual 1GbE fiber ports. In CAD environments with heavy file transfer traffic, administrators can move large CAD files from the server to the M1034W in the datacenter rack, rather than all the way out to the end point. M1034W with 10GbE eliminates the need/cost/time/building code permits etc. for having to run 10GbE infrastructure to the end points. With M Series configured with 10GbE, all the 10GbE runs from the workstation to the server can be short and done completely in the datacenter. All the runs to the desktop zero clients can be left intact as 1GbE.

Benefits

- Faster performance across a broad range of design, animation and video applications
- Intel® Dual Xeon® processor E5-2600v3 family (up to 22 cores)
- For high-precision, data-sensitive applications
- Up to 512GB DDR4 1866MHz reg. ECC DIMM
- High-performance SSDs
M1034W Blade PC Specifications

Form Factor
1U Rackmount

Chipset
Intel® C612

Processor
Two Intel® Xeon® processor E5-2600 v3/v4 family (up to 22 cores and 25MB cache)

Memory Capacity/Type
288-pin DDR4 DIMM sockets: 1866MHz ECC DDR4 SDRAM x 16
Supports up to 512 GB DDR4 ECC Registered memory (RDIMM)

DIMM Sizes
32 GB, 16 GB, 8 GB

Drives
Four

Connections
Intel® X540 Dual Port 10G-BASE-T
USB 3.0 x 4
RJ45: Dedicated IPMI LAN port x 1
PCI-E 3.0 x 16 slots x2
PCI-E 3.0 x 8 (m16) low-profile slot x1

On-Board Graphics
Aspeed AST2400 BMC
Intel Trusted Execution Technology (Intel TXT)
Intel Advanced Encryption Standard New Instructions (Intel AES-NI)

GPU/Host Card Options
Quadro P1000 + Dual/Quad Host Card
Quadro P2000 + Dual/Quad Host Card
Quadro P4000 + Dual/Quad Host Card
Quadro P5000 + Dual/Quad Host Card
Quadro P6000 + Dual/Quad Host Card

Note:
Dual host cards can deliver up to two 1920 x 1200 or one 2560 x 1600 resolution monitors.
Quad host cards can deliver up to four 1920 x 1200 or two 2560 x 1600 resolution monitors.

Storage
SSD 480GB SATA 6.0 MLC
SSD 960GB SATA 6.0 MLC
HDD 500GB 7200RPM 2.5" 32MB 7MM
HDD 1TB 7200RPM 2.5" 32MB 9.5MM
SSHD 500GB Hybrid SATA 6.0
SSHD 1TB 5400 RPM SATA 6.0 64MB

Dimensions
1.7" (43mm) height x 17.2" (437mm) width x 28.5" (724mm) depth

Gross Weight
48 lbs. (21.8 kg)

Power Supply
1000W/1600W Redundant power supplies

AC Voltage
100-240 V, 50-60 Hz, 15 Amp max; 1200 W 100-140 V; 1400 W 180-240 V

Operating Temperature
10°C to 35°C (50°F to 95°F)

Operating Relative Humidity
8% 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 more information.

Model Name | Part Number
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M1034W | GM1034W