



CLEARCUBE

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



Blade PC Workstation

Model M1034W

Simple Management, Connection Brokering and More

M1034W contains both the high speed CPU/GPU processing and remote extension technologies. Dual Xeon® 22-core processors with up to 512GB DDR4 ECC RAM, and up to four hot swap drives are coupled to an NVIDIA® Quadro P6000, the most powerful GPU in the NVIDIA® product line. For high-precision, data-sensitive applications, Quadro P6000 has 24 GB of GDDR5 GPU memory with ultra-fast bandwidth that allows you to create and render large, complex models and compute massive datasets. From medical imaging to structural analysis applications, data integrity and precision is assured, without sacrificing performance.

ClearCube desktop to datacenter solution delivers benefits on both ends: better security, ergonomics and working environment at the desktop plus better cooling, management, and data control in the data center.



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 (in x16) 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 |
|------------|-------------|
| M1034W | GM1034W |