



CLEARCUBE

Zero Client CD1042/44

Quad DisplayPort Fiber Zero Client with Integrated CAC reader

Future-Proof Your Zero Client Display Options

ClearCube® CD1042/44 zero clients, featuring four DisplayPort® connections, capitalize on the present and future evolution of desktop displays in virtual desktop infrastructure (VDI) environments. As the industry migrates away from DVI port connections on display monitors, CD1042/44 provides a connector compatibility path that allows connectivity to new DisplayPort supported displays for the foreseeable future.

With support for quad monitors and full-performance video, Cloud Desktop 1042/44 (CD1022/24) connects to VMware® virtual desktops on SmartVDI™ systems, 3rd-party virtual machines, and remote ClearCube Blade PCs.



For sites where data security is paramount, CD1044 sets itself apart from all competitors. Compared with DVI ports, DisplayPorts have lower voltage swings that emit less electromagnetic radiation; therefore, they are considered less susceptible to malicious intent “snooping-activity” at secure facility locations and SCIFs.

Designed to tolerate rough use, CD1042/44’s metal chassis is durable and oriented for CAC/SIPR card insertion. Enabling secure authentication, CD1024 integrates a PKI-approved CAC/SIPRnet token reader that supports 5v, 3v, and 1.8v smart cards. CD1044’s smart card reader is on the Teradici® PCoIP approved list, and is supported by VMware as well.

Adding to the security profile is fiber optic connectivity through CD1042/44’s fiber SFPs that support 100 base and 1000 base connections to host resources. Further security is provided by AES-256 Suite B Cipher encryption found in the PCoIP protocol.

Benefits



- Delivers full desktop quality computing experience via an IP connection to Blade PCs or VMware Horizon based hosts
- Centralizes PC resources in a single, secure location



- Increases security of physical and data assets
- Strong AES256-bit encryption
- CD1044 has integrated smart card reader



- Up to 4 USB 2.0 ports (depending on model)
- 4 DisplayPort connectors



- Provides all the benefits of a standard PC with no noise, less heat, and less space



- ClearCube Zero Clients are fully TAA-compliant.

High Performance, Optimal Quality

Both CD1042 and CD1044 Zero Clients deliver simultaneous full screen, full motion video at high resolution up to four monitors. Each monitor is independently configurable for both resolution and choice of portrait or landscape orientation. CD1042/44 zero clients resolution options include 1 monitor at 4K UHD 30FPS, 2 monitors at 4K UHD 15FPS (using two DisplayPort cables), and 4 monitors at 1920 × 1200 (using four cables).

Full PC Experience over IP

In ClearCube Centralized and Virtualized Desktop Infrastructures (CVDI), CD1022/24 can broker a connection to both SmartVDI and Blade PC resources using VMware Horizon. Dedicated 1:1 users can take advantage of hardware accelerated PCoIP chips in ClearCube's Blade PCs to support legacy, mission-critical, and/or GPU-intensive applications.

Simple Installation, Secure Hardware

CD1042/44 Zero Clients require no special OS drivers. There are no moving parts that can fail and no removable parts that encourage user tampering/theft. The units easily connect all standard peripherals including multiple monitors, keyboard, mouse, audio input/output devices and USB peripherals.

Full Power USB (1 amp) Support

CD1042/44 Zero Clients comes with up to 4 Type-A USB 2.0 ports. Full power USB (1 Amp) is supported by using a single USB connection in the paired stack, leaving the other connector in the pair empty. This feature can be used to support higher power USB peripherals or for faster cell phone charging, for example.

CD1042/44 Zero Client Specifications

Chipset	Teradici TERA2140 PCoIP®
Operating System	None
Display	Single: 4K UHD 30FPS Dual: 4K UHD 15FPS Quad: 1920x1200
Memory	DDR3 DRAM devices (512 MB DDR3)
I/O Physical	DisplayPort × 4 CD1042: USB 2.0 × 4 compatible ports CD1044: USB 2.0 × 3 compatible ports HD Audio Out and Audio In 3.5mm Microphone jack × 1 3.5mm Headphone jack × 1
Network	Copper SFP Module 1000BASE-T, RJ45 Connector (G0900139) Fiber SFP Module 1000BASE-SX, LC Connector (G0900138) Fiber SFP Module 100BASE-FX, LC Connector (G0900249) Power connection for auto-sensing power adapter
Max Consumption	8 Watts w/o USB; 15Watts w/ 4 high power USB devices attached
Power Supply	Universal 100-240 VAC, 50-60Hz Output: 12 V DC
Security	Kensington Slot for use with Kensington locks Integrated PKI approved smart card reader on CD1024/44 model
Temperature	Stationary office installation, 0° to 35° C
Physical Characteristics	Metal
Dimensions	1.5 (W) × 6.5 (H) × 5 (D) in
Accessories	Zero Client 7 Port USB Module DVD Player / Carriage Tray Mounting Bracket



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PCoIP®

 **DisplayPort**

Ordering Information

Call: (866) 652-3500

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to order or for more information.