



## Morro CacheDrive R1100

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Morro Data is revolutionizing data management with its innovative CloudNAS 3-in-1 global file services delivering local network performance and simple user experience combined with cloud reliability, accessibility, and scalability. Morro Data's CloudNAS Series allows businesses to quickly and efficiently manage unlimited file storage, multiple office sync, and instant disaster recovery.

**CloudNAS** includes cloud storage, Morro Global File System, and Morro CacheDrive devices. The **Morro CacheDrive** is the industry's first cloud gateway designed for high-performance, efficient and simple file access for small-to-mid-sized businesses. Powered by Morro's smart Cache & Sync technology, the CacheDrive delivers advanced data management features, such as global de-duplication, compression, chunking, encryption, and versioning.

CacheDrive R1100 is the latest high-capacity, rackmount gateway. Coupled with the *CloudNAS Enterprise* service plan, the R1100 allows IT professionals to easily integrate the fastest Morro cloud solution.

The R1100 delivers 16TB of cache capacity in a compact 1U rackmount form factor and features the Intel Xeon Quad Core processor, ECC memory, enterprise class hard disk drives and 10 GbE networking. This allows IT professionals to seamlessly integrate the R1100 into existing IT infrastructure for businesses with up to 250 users for large file operations or massive cloud storage capacity support.

### **High Performance**

The Morro CacheDrive caches the most-recently accessed content locally for shared access. It allows users to access cloud-stored contents at local network speed.

### **Storage Efficiency**

Morro's smart Cache & Sync technology retrieves cloud-based files on demand. Once downloaded, the files are cached locally and available to all local network users. It frees up disk space on users' PC or Mac. Users can be worry-free about running out of disk space typically caused by unnecessary automatic cloud storage download.

Each file's metadata is sync'd to all CacheDrive devices in the Morro account. Based on usage, the most-recently accessed files are kept in each on-premises CacheDrive while the non-cached files are downloaded on demand from the cloud.

Morro CacheDrive is built upon advanced architecture and supports a range of cache size configurations. The cache size is determined based on the file access workload and the total cloud storage capacity. For general use, a 10-to-1 ratio is recommended for cloud-to-cache capacity to optimize the file download and cache utilization. This can be tailored by use case.

### **Infinite Capacity**

The CacheDrive is a gateway to the users' entire Global File System. Even with a limited cache size, users can access virtually unlimited file storage in the cloud. The solution is scalable to infinite capacity.

### **Data Resiliency**

Morro CacheDrive stores files in the Morro Cloud Storage, which is built on Amazon AWS S3. The enterprise-class cloud storage is rated with 99.9% availability and 99.999999999% durability. Morro CloudNAS also supports Bring-Your-Own-Storage for users to integrate their own AWS S3 or BackBlaze B2 cloud storage accounts. All cloud storage solutions offer enterprise class data resiliency, reliability and durability.



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## **Global File System**

The Morro Global File System provides unified and consolidated files access to all the files stored on in the Cloud Storage by users in the same office or remote offices. The system administrator can setup and manage user accounts, user permissions and storage resources from a cloud-based management portal. Users in multiple office locations can all work together just like they are working in the same office local network.

## **Cost Effective**

With smart Cache & Sync technology, files are downloaded from the cloud to a CacheDrive and shared amongst all users reducing the Internet traffic. With its innate backup-less and maintenance-free operation, Morro CloudNAS reduces operational costs and management overhead. The solution does not charge per-user fee offering optimal Total Cost of Ownership (TCO) for businesses.

## **Versatile 3-in-1**

As the on-premises gateway of Morro CloudNAS, the CacheDrive supports a local file server interface like a Network Attached Storage (NAS) over the Server Message Block (SMB) protocol. Users can drag-n-drop files in the most familiar manner of a local file server. Morro CloudNAS combines the benefit of the cloud and local network file servers. It's a versatile 3-in-1 solution with unlimited file storage, multiple-office sync, and instant disaster recovery applications.

## **Technical Specifications**

Processor	Intel Xeon Quad Core processor
Memory	16 GB ECC Memory
Internal Storage /Cache	16 TB (2x 8TB HDD) The most-recently accessed global files are stored in the cache
Networking	1 port, 10GBASE-T (10GbE) DHCP, Support of IPv4 and IPv6
Enclosure	Metal, 1U w/ rackmount sliding rail
Others	VGA, USB, optical ports only for debug mode
Dimensions	Product: H 1.7 x W 17.2 x D 19.8 inches
Weight	Product: 27 lbs.
Power	100-240VAC, US power cord
Network File Protocol	CIFS/SMB
Management	Morro Cloud Manager, device management, user/group manager, account management, customized unique URL
Access and Authentication	User, Group, Gateway based share mapping Microsoft Active Directory support
Storage	Morro Cloud (Amazon S3-based cloud storage), AWS S3, Backblaze B2 De-duplication, compression, file-versioning
Security	AES 256-bit encryption, SSL for Web link
Supported Browser	Chrome v.49 or later, Firefox v.51 or later, IE 9 or later, Safari 7 or later
Configuration/SKU	North America: R1110US Requires the CloudNAS Enterprise plan