



# DATASHEET

# ETN3316D

## COMPLETE DATA PROTECTION, GOOD PERFORMANCE, WITH RELIABILITY AND HIGH SCALABILITY

The ETN3316D 12G SAS NAS based on latest NAS 3.1 operating system. Except for basic NAS functions, it supports a variety of advanced storage management and application features such as VAAI, HA, Thin-Provisioning, etc, and it can be deployed easily in any IT environment since it supports multiple interfaces for different host server and clients.

For data protection, ETN3316D supports RAID level 0, 1, 5, 6, 10, 50 and 60 mode, and drives can be set hot spares, have automatically hot rebuilding and online capacity expansion within the enclosure. ETN3316D has a fully-featured backup solution including manual or scheduled backup for file, folder, and shares, and it can be backup and restore from multiple local or remote devices. And there are volume clone, snapshot, remote replication, and data copy for options, which are all designed to ensure and enhance your precious data.

### TECHNICAL SPECIFICATION ETN3316D

Form Factor	3U 16bays LFF	
Processor	Single or Dual Intel Xeon E5-2620v4 8C 2.1GHz	
RAM	16GB (32GB for 2CPU) DDR4 up to 256GB (512GB)	
Controller RAID	ROC (Raid on Chip) Dual Core 1.2GHz with 1GB DDR3 NVRAM	
RAID Level	Support RAID Level 0,1,5,6,10,50,60	
Expansion Connetivity (ctrl)	Built-in 12Gb/s SAS wide ports (SFF-8644) for daisy chain expansion up to 128 SAS 12Gb/s drives using JBOD ETN3316J (max 7 ETN3316J)	
Drive Type	3.5" & 2.5" SAS, NL-SAS, SED HDD, 2.5" SAS SSD (also mixed) no bracket adapter 2.5" required to install 2.5" drives in 3.5" trays	
I/O	Integrated 4x1GbE RJ45 ports + dedicated LAN GbE RJ45 port for IPMI 4 slot PCIe available for HBA Addon iSCSI or FC (max 8ports 10Gbps or 16Gbps supported)	
Dimension (HxWxD)	130x438x515 mm	
Protection Mode	Battery Backup on Raid Controller (optional)	
LCM	Integrated LCM	
Power Supply	80PLUS Platinum two Redundant 460W (1+1) AC Input 100-127V 10A, 47-63Hz 200-240V 5A, 47-63Hz	DC Output +12V 63.4A +5VSB 2.0A
Fan Module	6x hot plugg able/redundant internal fan	
Warranty	3yrs limited on system 1yr on Battery Backup	
Regulatory	CE, FCC, BSMI, VCCI, KCC	
Temperature	Operating Temperature: 0°C to 40°C Storage Temperature: -10°C to 50°C	
Relative Humidity	Operating Relative Humidity: 10% to 85% non-condensing Storage Relative Humidity: 10% to 90%	

The above specification are to be consider indicative  
The specification should be modified without notification

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### FEATURES

<b>Storage Management</b>	Volume management (Support ZFS, XFS, EXT3 and EXT4 file system) Support SSD Caching, Compression and Deduplication (Support on ZFS file system) Disk usage statistics Hot spare drives	iSCSI Target manager: Support LUN Mapping/ Initiator Filter/Thin Provisioning FC Target manager: Support LUN Mapping/Thin Provisioning VAAI support for iSCSI/FC/NFS
<b>General</b>	Independent file server Multiple language support	Support UPS Support LV encryption
<b>System Management</b>	Automatic IP address configuration Web browser-based management SNMP management and notification Fail-free online firmware upgrade Unicode support	Multi-node management GUI System configuration backup/restore Central management Quick wizard
<b>Networking</b>	Support NIC/Trunking/Load Balance/Fail Over/802.3ad DHCP Server/DHCP Client	WINS Server Internet gateway DDNS
<b>Protocols</b>	TCP/IP, SMB/CIFS, NFS, SNMP, FTP/SFTP/FXP, HTTP, HTTPS, Telnet, SSH, AFP, WebDAV, Bonjour, TFTP	
<b>Client Operating Systems Support</b>	Microsoft® Windows® 98/ME/NT/2000/XP/2003/Vista/2008/Win7/ Windows 2012/Win 8/Win 10/2016 - Unix/Linux -Mac OS	
<b>Authentication</b>	Local user account/group Microsoft NT Domain Controller (PDC) Microsoft Active Directory Authentication (ADS) Network Information Service (NIS) Support OpenLDAP service Support creating users by batch Write Once Read Many (WORM)	User quota management Share level security File level security User ID security for NFS Recycle bin (Samba) File access log, audit (Samba)
<b>Block Storage</b>	iSCSI Target Support. /Fiber Target Support (optional)Thin Provisioning support VMware VAAI support	
<b>Virtualization</b>	VMware/Citrix/Hyper-V - VMware VAAI for NFS support	
<b>Attached Storage</b>	ISO Mount USB/eSATA*/iSCSI initiator	
<b>Data Backup / Restore</b>	Volume Clone (EXT3/EXT4/XFS/NTFS/VMFS/ZFS) Symantec BackupExec Agent (by additional installation) Scheduling multi-snapshot (Support iSCSI & FC snapshot) Replication (Remote realtime data mirroring) NAS High-Availability (Two(2) nodes HA)(optional) Scheduling Rsync Replication Support NetVault backup client (by additional installation)	Support CA ARCserve (by additional installation) Data copy (copy files to other share/attached storage) Scheduling backup Differential/incremental backup iSCSI/FC Replication Amazon S3 backup Backup/restore from attached storage (USB/eSATA*/iSCSI/RDX*/USM*) Support Apple Time Machine
<b>Plug-in Management</b>	Anti-Virus / Central management/ Tunes Server / Virtualization (VM on NAS)	

Specification is subject to change without notice. All company and product names are trademarks of their respective owners.