

# FALCON SERIES 1600mz

## PRODUCT CONFIGURATION SHEET

### What is a Falcon Video Storage System?

Dynamic Network Factory's Falcon series high-capacity systems are ideal for high volume environments with data intensive applications. With increasing demand for longer archive time, better video resolution and higher frame rates, each high-capacity Falcon solution ensures maximized data retention and scalable performance.

### Key Features:

- ▶ Up to 192TB Raw Storage Capacity in 3U Rackmount
- ▶ 16 Hot-Swappable 12Gb SAS Drives
- ▶ Compatible with Leading Industry Video Management Software
- ▶ Open Hardware Platform
- ▶ Up to Two 64-Bit Xeon Processors (8 to 22-Cores Each)
- ▶ Up to 3TB High Speed Video Cache (16GB Standard)
- ▶ 12Gbps SAS Ultra High Performance Hardware RAID
- ▶ Quad-Port 1Gb or 10Gb Copper Ethernet Connectivity
- ▶ IPMI v2.0 with Virtual Media and KVM-Over-LAN
- ▶ Redundant High-Efficiency 80-PLUS® Titanium Power Supply
- ▶ 19" Rackmount Chassis w/Quick-Release Rapid Mounting Rails



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Internal Capacities	Up To 192TB* SAS
RAID Controller	12Gbps SAS with 2GB Cache & Full x8 SAS3 End-to-End Connectivity with Dual SAS Links
Redundancy Features	Redundant Hot-Swappable Power Supply RAID 1, 5, 6, 10, 50, 60
Network Options	Standard: Choice of 4 x 1GbE or 10GbE RJ-45 Optional: 1Gb Ethernet Server Adapters 10Gb Ethernet Server Adapters with RJ-45, SFP+, SR Optical, LR Optical Options 40Gb Ethernet Server Adapters with QSFP+
Host Bus Adapter Options	6Gbps or 12Gbps SAS HBAs 4Gbps, 8Gbps, 16Gbps, or 32Gbps Fibre Channel HBAs
Operating System Options	Windows 10 Professional Windows Server 2012 R2 Standard or Datacenter

\* Depending on RAID Configuration

**RAW CAPACITY: UP TO 192 TB**  
**PROCESSING: 8 TO 44 CORES**  
**VIDEO CACHE: 16GB TO 3TB**

### VIDEO RECORDING & STORAGE

### SYSTEM SPECIFICATIONS

Form Factor	3U Rackmount
# of Hot Swap Disks	16
Max Internal Capacity	192TB
Hardware RAID Controller	12Gbps SAS
RAID Levels	0, 1, 5, 6, 10, 50, 60, JBOD
RAID Cache	2GB
RAID Cache Protection	Optional Flash Module
Processors	Single or Dual Xeon 8 - 22 Cores per CPU
High Speed Video Cache	16GB - 3TB
Ethernet Ports	4 x 1 GbE or 10 GbE
Power Supply	Redundant 1000W
USB Ports	2 x USB 3.0, 2 x USB 2.0
Video Ports	1 x VGA
Audio Ports	None
Serial Ports	1 x Fast UART 16550
IPMI Management Port	Yes
Optical Drive	DVD+/-RW
Operating Temperature	10°C(50°F) - 35°C(95°F)
Non-Operating Temperature	-40°C(-40°F) - 70°C(158°F)
Dimensions	17.2"(W) x 25.5"(D) x 5.2"(H)

### RAID CONTROLLER FEATURES:

- ▶▶ Online Capacity Expansion
- ▶▶ Online RAID Level Migration
- ▶▶ Auto-Resume after Loss of Power During Rebuild
- ▶▶ Single Controller Multipathing
- ▶▶ Configurable Stripe Size up to 1MB
- ▶▶ Load Balancing
- ▶▶ Consistency Check for Background Data Integrity
- ▶▶ Patrol Read for Media Scanning and Repairing
- ▶▶ Global & Dedicated Hot Spare w/Automatic Rebuild
- ▶▶ Inband SES & Sideband SGPIO Enclosure Management
- ▶▶ S.M.A.R.T. Support
- ▶▶ Storage Management Utility