VECTOR DATA™ ➤➤

CacheControl NEBS

PRODUCT OVERVIEW

The Vector Data CacheControl NEBS is the central office edition of its robust caching appliance product line, designed for Telcos to deploy next-generation media services to its subscribers. The CacheControl NEBS is the first NEBS Level 3 Certified caching server appliance of its kind running the CacheControl, a component of Vector Data's Packet*Warp*™ software.

The CacheControl NEBS is purpose-built to serve large volumes of media content for service providers, from a small footprint in the central office. Several CacheControl NEBS appliances may be combined for scalability and redundancy.

PRODUCT HIGHLIGHTS

· Dense, 1U rackmount server
· DC-powered
· High performance HTTP accelerator
· Secure remote administration console
· Powerful origin selection rules by host or URL regular expression
· Supports eject (purge) by host or URL regular expression
· SNMP monitoring of system state and cache statistics
· FTP access for cache access logs
· Remote syslog logging

NEBS COMPLIANCE

Vector Data's CacheControl NEBS system with DC input is compliant with the NEBS Level 3 criteria and the system with AC input is compliant with NEBS Level 1 criteria from the following NEBS specifications:

NEBS GR-63-CORE, Issue 3 — Physical Protection
NEBS GR-1089-CORE, Issue 4 — Electromagnetic Compatibility and Electrical Safety

ETSI Standards Compliance (DC Input Only)

Vector Data's CacheControl NEBS system with DC input is compliant with the following ETSI specifications:

• ETSI EN 300 386 — EMC requirements for Telecom Equip.
• ETS 300-019-2-1 — Storage Tests, Class T1.2
• ETS 300-019-2-2 — Transportation Tests, Class T2.3
• ETS 300-019-2-3 — Operational Tests, Class T3.2
• ETS 753 — Acoustic Noise

FEATURE LIST

Feature	Description
Compact, High-density System	Rack-mount server with a height of 1U (1.75 inches) and a depth of 20.0 inches
Configuration Flexibility	Two-way capability in low profile and cost/value-effective packaging
	Stand-alone system
	Up to two Dual-Core Intel® Xeon® processors, LV5100 series
Serviceability	Rear access to hot-swappable power supplies Front access to hot-swappable hard disk drives
Availability	Up to two hot-swappable 450W power supplies in a redundant (1+1) configuration
	Integrated support for software RAID levels 0 & 1 using three internal hot-swappable 2.5-inch SAS disk drives, and RAID levels 0, 1, and 10 when using additional external SAS drive(s) through rear-panel connector.
	Supports ROMB (RAID On Mother Board) hardware RAID operation for RAID 5 capability with addition of optional Intel® RAID Activation Key and ECC Mini-DIMM.
	Memory rank sparing
Manageability	Remote management and diagnostics support
	Emergency management port (serial and LAN)
	IPMI 2.0 compliant
	Support for optional SysCon board
Upgradeability and Investment Protection	Supports Dual-Core Intel® Xeon® processors, LV5100 series
	Multi-generational chassis
	Supports Intel® 64 architecture (formerly known as Extended Memory 64 Technology)
System-level Scalability	Supports up to 24 Gbytes of DDR2-533 or DDR2-667, registered SDRAM FBD
	DIMM memory
	Supports two Dual-Core Intel® Xeon® processors, LV5100 series
	Full-height, full-length, 64-bit x 100/66 MHz PCI-X or x8 PCI Express slot
	Three internal hot-swappable 2.5-inch SAS hard disk drives
	Supports up to four external SAS hard disk drives
	Low-profile optical drive

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FEATURE LIST (continued)

Feature	Description
Front Panel	Power switch Reset switch NMI switch ID switch Main power LED HDD activity LED NIC activity LED ID LED Telco power alarm fault LED/relay Telco critical alarm fault LED/relay Telco major alarm fault LED/relay Telco minor alarm fault LED/relay

I/O

Front Access	Rear Access
• Serial B port (RJ45) • USB 2.0 port	• Dual PS/2 ports for keyboard and mouse • Serial B port (RJ45) • Two USB 2.0 ports • Four GbE ports • GCM 100 Mbps management port • SAS 4x drive port with RAID support • Video port • Telco alarms port

ENVIRONMENTAL SPECIFICATIONS SUMMARY

Environment	Specification
Temperature, Operating	+5°C to +40°C (41°F to 104°F)
Temperature, Non-operating	-40°C to 70°C (-104°F to 158°F)
Altitude	0 to 900m (2,950 ft.) @ 35°C, temperature derated by 1°C for each additional 300m (985 ft.)
Humidity, Non-operating	95%, non-condensing at temperatures of 23°C (73°F) to 40°C (104°F)
Vibration, Operating	Swept sine survey at an acceleration amplitude of 0.1 g from 5 to 100 Hz and back to 5 Hz at a rate of 0.1 octave/minute, 90 minutes per axis on all three axes as per Bellcore GR-63-CORE standards
Vibration, Non-operating	Swept sine survey at an acceleration amplitude of 0.5 g from 5 to 50 Hz at a rate of 0.1 octaves/minute, and an acceleration amplitude of 3.0 g from 50 to500 Hz at a rate of 0.25 octaves/minute, on all three axes as per Bellcore GR-63-CORE standard. 2.2 Grms, 10 minutes per axis on all three axes as per the *Intel Environmental Standards Handbook*
Shock, Operating	Half-sine 2 G, 11 ms pulse, 100 pulses in each direction, on each of the three axes as per the *Intel Environmental Standards Handbook*
Shock, Non-operating	Trapezoidal, 25 G, 170 inches/sec delta V, three drops in each direction, on each of the three axes as per the *Intel Environmental Standards Handbook*
Acoustic	Sound pressure: <55 dBA at ambient temperatures <24°C measured at bystander positions in operating mode
RoHS	Complies with RoHS Directive 2002/95/EC

PHYSICAL DIMENSIONS

Height	1.70 inches (43.2 mm)
Width	16.93 inches (430.0 mm)
Depth	20.0 inches (508 mm)
Front Clearance	2.0 inches (76 mm)
Side Clearance	1.0 inches (25 mm)
Rear Clearance	3.6 inches (92 mm)

With the addition of the CacheControl NEBS to Vector Data's product line, Vector Data can improve the user experience and extend your subscriber reach.

The CacheControl NEBS is an excellent solution for any media-rich applications network operators to deploy in today's data-driven world.

For more information, please contact Vector Data at sales@vectordata.com.