

SeaChange® Axiom® Server

Advanced Video Operations Services Appliance

QuickSpec

The SeaChange® Axiom® Server is a NEBS-certified, carrier-grade, high-availability server specially configured to host the SeaChange Axiom On Demand suite of application services. The server supports high availability features such as hot-swappable disk drives and hot-swappable and redundant power supply modules.

The Axiom Server delivers unrivaled performance and system reliability and is the hardware component delivering reliability, scalability and performance to the following Axiom components:

- Axiom Application Server
- Axiom Database Server
- Axiom Recording System
- Axiom Content Distribution Server 101

SERVER HARDWARE SPECIFICATIONS

- Compact 1RU, high-density NEBS-certified rack-mount chassis
- Intel® 2.33GHz, Quad-Core Intel® Xeon® 5400 series processor
- 2GB DDR2 – 667Mhz ECC memory
- Two (2) x 147GB 10,000RPM hot-swappable drives
- Four (4) x Gigabit Ethernet ports
- 450W 110/220V AC or -48VDC DC hot-swappable power supplies



SERVER FEATURE

Carrier-Grade Hardware

The server is designed for use in the most demanding carrier grade environments, and is fully certified with NEBS GR-63-CORE (physical protection)* and NEBS GR-1089-CORE (electromagnetic compatibility and electrical safety)**.

Redundant Power

The server supports hot-swappable power supply modules. AC-input and DC-input modules are available, and two (2) 450W power supply modules can be installed for a 1+1 redundant configuration. One power supply may be installed in a non-redundant system in a maximum loaded system.

Front Panel Indicators & Switches

Switches: Power, Reset, NMI, ID

LEDs: Main Power, HDD, NIC, ID, Telco alarm/relay (4)

I/O PORTS & INTERFACES

Rear Access

- Four (4) GbE NIC ports (RJ45)
- Telco alarms port (DB15)
- Serial port (RJ45)
- Two (2) USB 2.0 ports
- PS/2 ports & video port

Front Access

- Serial port (RJ45)
- USB 2.0 port
- Optical drive

SYSTEM SOFTWARE

Operating System

- Microsoft® Windows® 2003 Server

ENVIRONMENTALS

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 900 m (2,950 ft) @ 35° C, temperature de-rated by 1° C for each additional 300 m (985 ft)

Humidity, non-operating

95%, non-condensing at temperatures of 23° C (73° F) to 40° C (104° F)

System Cooling Requirement

1200 BTU/hr with single power supply unit

1250 BTU/hr with dual power supply units

RoHS

Complies with RoHS Directive 2002/95/EC

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)

Safety Compliance

USA/Canada	UL 60950-1, 1st Edition/CSA 22.2
Europe	Low Voltage Directive, 73/23/EEC TUV/GS to EN60950-1, 1st Edition
International	CB Certificate and Report to IEC60950-1, 1st Edition and all international deviations

Ordering Information

Part #	Description
TLA-02xx-00	Axiom on Demand XXX^ Server Pair (for 100-250 AC) Model 105AC
TLA-02xx-10	Axiom on Demand XXX^ Server Pair (for NEG48 VDC) Model 105DC
PWR-0101-00	Axiom Server AC P/S, 450W
PWR-0102-00	Axiom Server DC P/S, 450W
DRV-0170-00	Axiom Server Spare 147GB SAS Drive

^Contact your SeaChange sales representative for specific part numbers and server models required for your deployment

Electromagnetic Compatibility

USA	FCC 47 CFR Parts 2 and 15, Verified Class A Limit
Canada	IC ICES-003 Class A Limit
Europe	EMC Directive, 89/336/EEC EN55022, Class A Limit, Radiated & Conducted Emissions EN55024 Immunity Characteristics for ITE EN61000-4-2 ESD Immunity (level 2 contact discharge, level 3 air discharge) EN61000-4-3 Radiated Immunity (level 2) EN61000-4-4 Electrical Fast Transient (level 2) EN61000-4-5 Surge EN61000-4-6 Conducted RF EN61000-4-8 Power Frequency Magnetic Fields EN61000-4-11 Voltage Fluctuations and Short Interrupts EN61000-3-2 Harmonic Currents EN61000-3-3 Voltage Flicker
Australia/ New Zealand	EN55022, Class A Limit
Japan	VCCI Class A ITE (CISPR 22, Class A Limit)
Taiwan	BSMI Approval, CNS 13438, Class A and CNS13436 Safety
Korea	RRL Approval, Class A
China	CCC Approval, Class A (EMC and Safety)
Russia	Gost Approval (EMC and safety)
International	CISPR 22, Class A Limit, CISPR 24 Immunity

CE Mark

The CE marking on this product indicates that the server is in compliance with the European Union's EMC Directive 89/336/EEC, and Low Voltage Directive 73/23/EEC

NEBS Certification

The Axiom Server is certified with the NEBS 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

* NEBS GR-63-CORE, Issue 3 - Sections 4.2, 4.4.1 through 4.4.3

** NEBS GR-1089-CORE, Issue 4 — Sections 3.2, 3.3, Section 4, 7 & 9

ETSI Standards Compliance

The Axiom server is compliant with the following ETSI specifications:

- ETSI EN 300 386 — EMC requirements for Telecom Equipment
- 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



SeaChange International, Inc.
50 Nagog Park, Acton, MA 01720 USA
T 1.978.897.0100 F 1.978.897.0132
www.schange.com
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