

## **Cepoint RS-1702® 2U DUAL Opteron or Xeon dual core Processor, NEBS Telecom / Industrial Carrier Grade Server system**

*Mission-Critical and High availability, NEBS-3/ETSI compliant 2U Rack Server supporting Next Generation Telecom Solutions optimized for multi-facet data, video/ audio applications.*



Cepoint RS-1702 is a NEBS-3 and ETSI compliant Carrier Grade / Industrial Rack Server with Quad Opteron or Xeon processors designed for high and reliable performance even in the most hostile Telco CO environment. This server is a perfect fit for the demanding environment and I/O bus expandability requirements of the Central Offices, highly available data centers and Rugged environments. It is ideal for the convergence of Voice and IP (VoIP), Video streaming, high capacity telephony and real-time next generation telecom solutions. RS-1702 is a high performing, competitively positioned server which meets the rigid standards of the Central Office, offers robust server management, high availability, and an extended life cycle for excellent customer investment protection.

This Dual core, dual processor Server is offered as a standard building block to enable OEMs and TEM's create their own value-added solutions for a variety of telecom applications. Example: unified messaging, voice over IP, call control, media and signaling gateways, Operational System Support, SMS, MMS, EMS, etc.

### *An Advanced Server for any Environment*

#### ***Telcom Carrier Grade Features***

Cepoint RS-1702® is a NEBS-3 and ETSI compliant Dual Opteron or Xeon server which can withstand extreme heat, humidity, altitude, zone 4 earthquake shock, and is flame-resistant. See table below for more details

#### ***Advanced Server Management***

RS-1702 comes with the Telco Alarm Management features to provide visual, audible (optional) and SNMP event indications of faults. These features are consistent with the rigid requirements of the Telecom Central Office Environment.

#### ***Extended Life Cycle***

Cepoint® RS-1702 offers extended Life Cycle (ELC) which is comprised of longer product availability, longer warranty and spares support for an excellent customer investment protection.

### **RS-1702 FEATURES**

**Features**

**Benefits**

<b>High-density 2U height:</b>	25 inch depth compatible with 600mm standard telecom rack
<b>Configuration flexibility:</b>	2- CPU capability in low profile and cost/value effective packaging Stand-alone system AMD Opteron® Or Intel Xeon processors
<b>Serviceability:</b>	Back hot-swap -48V DC-DC power supplies option; Front access to hot-swappable disk drives
<b>Availability:</b>	460-Watts power supplies (AC or DC) in hot swap redundant Configuration
<b>Manageability:</b>	Remote management; Emergency management port (Serial and LAN) IPMI 1.5 compliant; WfM 2.0 compliant Remote diagnostics support
<b>Investment Protection:</b>	Investment Protection
<b>System-level scalability:</b>	Up to 32GB DDRAM memory support DUAL Opteron, OR Xeon dual core processor support Total of five usable expansion slots: 2- Full Height Full Length 64- Bit x 133/100/ 66/33 MHz (3.3-Volt) PCI-X Slots 2- Full Length 64- Bit x 66/33 MHz 3.3 V PCI-X Slots 1 – 32-bit 33MHz (5-volt) PCI slot internal SCSI Disk drives 1 Low Profile CDROM, 1 Low Profile Floppy Drive
<b>Front pane monitors:</b>	Power switch      NIC activity LED Reset switch      Telco power alarm fault LED/Relay NMI switch      Telco critical alarm fault LED/Relay Main power LED      Telco major alarm fault LED/Relay HDD activity LED      Telco minor alarm fault LED/Relay

**Front Panel Features**

- 1) Peripheral Bay 1 - Floppy Drive
- 2) Peripheral Bay 2 – Slim CD-ROM Drive
- 3) Front Panel Switches and Alarm LEDs
- 4) SCSI OR SATA Hard Drive Swap Trays

**Rear Features**

- i) Five Full height, full length 64-bit, PCI-X add-in board slots
- ii) DB-15 male connector for front panel alarm relay contacts
- iii) One full height, full length 32-bit, 33 MHz PCI add-in board slots (5 V )
- iv) Redundant, hot-plug power supplies (AC & DC require unique power supply bays)

**Regulatory Compliance (note 1)**

RS-1702 is built to comply with the following Safety, EMC and NEBS regulations

**Safety**

<b>U.S., Canada</b>	UL1950 – CSA 950 (UL and cUL)
<b>Europe, CE Mark</b>	EN60950 (complies with73/23/EEC)
<b>International</b>	IEC60950 (CB Report and Certificate)
<b>Russia</b>	GOST

- v) Four-terminal DC input power connector for DC input power supply bay
- vi) USB port 1
- vii) Video connector
- viii) Optional External wide SCSI Ultra 160 68-pin connector
- ix) Dual NIC 10/100/1000 RJ45 connectors NIC 1 and NIC 2
- x) PS/2<sup>T</sup>-compatible ports (requires adapter to connect both keyboard and mouse)
- xi) Serial port (COM2), 8-pin RJ45 connector
- xii) USB port 0
- xiii) Two grounding lugs for attachment of grounding wire to chassis
- xiii) AC or DC- input power connectors for AC or DC input power supply bay (shown in inset)

**Server Physical Dimensions**

<b>Height</b>	7 inches
<b>Width</b>	17inches (19" w/rack ears)
<b>Depth</b>	25 inches
<b>Front clearance</b>	2 inches
<b>Side clearance</b>	1 inches
<b>Rear clearance</b>	3.6 inches

**EMC (note 1)**

<b>U.S.</b>	FCC, Part 15, Class A
<b>Canada</b>	ICES-003, Class A
<b>Europe, CE Mark</b>	EN55022 (Class A); EN55024 & EN61000-3-2;-3-3 (complies with 89/336/EEC)
<b>International</b>	CISPR 22, Class A
<b>Japan</b>	VCCI, Class A
<b>Taiwan</b>	CNS13438, Class A
<b>Korea</b>	RRL, MIC 1997-41 & 1997-42
<b>Russia</b>	GOST
<b>Australia, New Zealand</b>	AS/NZS 3548 (based on CISPR 22)

**NEBS/ETSI**

Bellcore GR-63, Physical Protection Requirements
BellcoreGR-1089, Electromagnetic Compatibility and Electrical Safety Req.
ETS 300 386, Telecommunication Network, Electromagnetic Compatibility
ETSI 300 019, Environmental Conditions and Environmental Tests
ETSI 753, Acoustic Noise

1) Cepoint systems are designed and manufactured with components that meet the specified regulatory requirements listed. Cepoint® Carrier Grade Server RS-1702 may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

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