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NEC

UNIVERGE® SV8500
Communications Server

The premier IP communications server for regional and global expansion, worker mobility and environmental responsibility.

At a Glance

- Increase customer satisfaction and lower expenses
- Provides reliable business continuity support
- Supports open standards for simplified business process integration
- Delivers advanced applications
- Complies with green standards
- Seamless network integration
- Investment protection

Overview

The UNIVERGE SV8500 Communications Server is a powerful enterprise communications solution capable of supporting up to 4,000 endpoints in a single system. Reliable, scalable and energy-efficient, it is an advanced application server that supports voice, unified communications and mobility solutions for tens of thousands of users. Designed to easily and efficiently scale, the SV8500 meets the needs of the largest enterprises, supporting up to 192,000 ports in a networked environment.

As a part of NEC's UNIVERGE®360 commitment to putting people in the center of communications, the SV8500 unifies the enterprise through the high-efficiency technology that large enterprises require. The SV8500 is the premier IP communications server for regional and global expansion, worker mobility and environmental responsibility. It offers an extensive IP feature set in a flexible, scalable, secure package.

Solution

Increase Customer Satisfaction and Lower Expenses

The SV8500 enables a business's customers to reach workers wherever they are. It extends communications to branch and international offices simply and cost-effectively. It supports a number of NEC's mobility-enhancing tools that empower users to be productive - whether they are at their desks or have stepped away. Individuals, departments and locations can work more efficiently by communicating seamlessly in real time.

Provides Business Continuity

The SV8500 ensures business continuity through component redundancy. It also provides IP fail-over for stations and trunking, clustered survivability, power failure transfer and call routing for self-healing networks. Its architecture is ideal for mission-critical situations. Advanced fault diagnosis, error-correcting memory, and component redundancy all ensure high availability and operational continuity.

Simplify Business Process Integration

The SV8500 provides support for open-standards for integrating communications into business process applications. This facilitates process simplification. Standards and devices supported by the SV8500 include:

- SIP-enabled devices
- LDAP-compliant databases
- Java™ and XML
- Managed data network infrastructure
- UC for Enterprise Applications Platform (UNIVERGE OW5000), an integration platform for UC solutions such as NEC's UC for Enterprise suite of applications, Microsoft® Office Communications Server and IBM® Lotus® Sametime®

Delivers Advanced Applications

The SV8500 provides cutting-edge features that optimize the customer experience and maximize enterprise resources. Some of the applications supported are:

- NEC's UC for Enterprise (UCE) suite of applications which include UCE Unified Messaging, UCE Desktop Client, UCE Attendant, UCE Collaboration, UCE Mobility and Contact Center. This suite of applications provides unified communications, fixed mobile convergence, contact center and attendant capabilities, and advanced collaboration tools.
- UC for Enterprise Manager, a web-based management application that enables users to access the system remotely through a personalized portal to configure their communications options. Additionally, Expense Management offers call accounting, asset management, mobile management, and billing and invoice reconciliation.

- UNIVERGE DT700/DT300 Series Desktop Terminals raise the standard with an extensive feature set, XML application support and a revolutionary modular design.
- NEC's softphones which integrate communications into the computing environment to eliminate the need for a physical phone and extend the desktop around the world.

Supports Green Initiatives

The SV8500 is an ecologically sound, compact system that uses 23% less power than previous generations of IP communication servers. NEC paid special attention to its environmental impact and delivered a RoHS compliant system that includes:

- Reduced air conditioning requirements for the server
- Recyclable materials and components that use environmentally safe chemicals
- Elimination of lead and mercury in circuit boards
- Documentation provided in electronic format rather than paper booklets

Seamless Network Integration

The SV8500 can be incorporated into networks that contain existing NEC systems to provide a path to IP. The SV8500's interoperability enables it to protect a business's investment in previous products such as the UNIVERGE SV7000 Communications Server, the NEAX® 2400 ICS, IMX and the UNIVERGE NEAX 2400 IPX.

Using both FCCS (Fusion) and CCIS networking for seamless integration, the SV8500 can also be networked with other NEC products, including the NEAX 2000 IPS, and the UNIVERGE SV8100 and SV8300 Communications Servers. This provides businesses with a broad range of server options to address needs at the edge of the network as well as the core.

Investment Protection

For existing customers, NEC has developed an easy way to transition existing NEAX® 2400 ICS, IMX, UNIVERGE NEAX 2400 IPX or UNIVERGE SV7000 Communications Servers into a full-featured IP communications system that supports advanced business productivity applications. This protects our customer's initial investment and extends the life of their current voice infrastructure.

The SV8500's architecture accommodates and supports our customer's pre-existing system equipment and terminals while offering an extensive IP feature set in a flexible, scalable secure package.

Whether a business is an existing customer or one that is new to NEC, they can always be confident in the knowledge that they have the latest communications technology and applications. Because this solution is one of NEC's global offerings, development for UNIVERGE SV8500 Communications Servers will continue for years to come.

Specifications

Dimensions	3 Rack Units high, 19 inches wide
System Voltage	100-240V AC or -48 VDC
Processors	Intel Dual Core Duo 2.16GHz
Gateway Chassis Slots	17
Number of Ports	6,144
Trunks	
Analog Trunks (COT):*	4,000
T1/PRI Channels:*	4,000
SIP Trunks:*	4,000
Stations	
Digital Terminals:*	4,000
Analog Terminals:*	4,000
IP Terminals (hard/soft):	4,000
Networking	
FCCS networking (IP):	64 nodes
CCIS networking (T1/IP):	64 nodes
Ports:	up to 192,000
Standards	
Devices:	SIP-enabled
Databases:	LDAP-compliant
Languages:	Java and XML
Wireless LAN:	802.11 a/b/g
Other:	802.3af
Applications	
Internal ACD:	Max 1000 stations
OAI support:	UNIVERGE 3rd party apps
Conference Bridge:	Max 32 ports/card; Max 255 cards

Regulatory Compliance	• FCC part 15, Class A & part 68 • UL 1459 • Section 508 compliant • CSA standard C 22.2 No. 225 • CE Mark • Industry Canada (IC) CS-03

* Based upon system configuration

Available Options

Optional 1 RU MPC Chassis Cards: 2 Slots Per MPC	
6COT MG	6 analog trunks
4LC2COT	4 analog & 2 trunks
PRI MG	1 PRI trunk
8LC	8 analog stations
VS-32 Conf. Module	32 conference ports
T1 MG	1 T1 trunk
MGSIP (16)	16 SIP trunks
SR-MGC (S)	Supports up to 200 Ports
Optional 1.5 RU Media Gateways	
SR-MGC (E)	Stand-alone, supports up to 1000 ports
MG-SIP (128)	Stand-alone, supports up to 128 SIP Trunks

Optional Features	• 2 redundant Ethernet ports • High Speed internal communication bus • Redundant power supply options • Redundant processors • Encryption • UCE Mobility • UNIVERGE IP & Digital Terminals (Desktop & DECT) • Dual input/output cards

Optional Gateway Chassis	
Height:	8 RU high
Availability:	For high-density TDM digital and analog interface cards
Universal Card Slots:	17

Optional IP Gateway	
IP Gateway (IPG)	32 Digital Series E, i or DT300 terminals
	32 Standard Analog Telephones

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