Spectralink
IP-DECT Server 6500

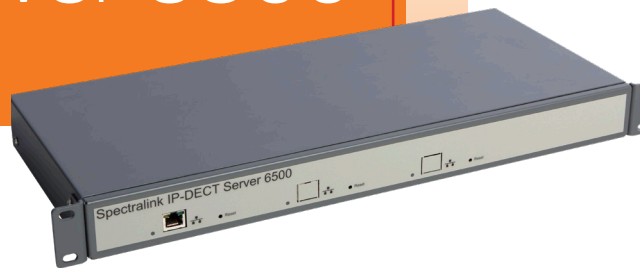**spectralink**

On-Site Mobility for Mid-to-Large Enterprises

The Spectralink IP-DECT Server 6500 is a premium enterprise-grade SIP-enabled mobility solution that can support a large number of staff with DECT wireless telephony, particularly for businesses requiring radio coverage over a large geographical area. The IP-DECT Server 6500 solution consists of several different infrastructure elements that can be assembled to exactly match the wireless needs of your business today and to support any future growth demand. This makes the solution an ideal and future-proof choice for mid-to-large organizations, enterprises, and fast-growing businesses.

The Spectralink IP-DECT Server 6500 solution can fulfill in-building wireless telephony needs of up to 4,095 mobile employees – and supports radio coverage of up to 1,024 IP-DECT Base Stations. Additionally, with flexible license options, businesses only need to pay for the features and capacity they need now and update as their needs grow.

The modular add-on nature of the Spectralink IP-DECT Server 6500 options makes it easy to increase the number of voice channels and/or geographical radio coverage. Add additional voice channels with the Spectralink Media Resource and expand the radio coverage with Spectralink IP-DECT Base Stations as required.

The IP-DECT Server 6500 optionally supports handset sharing – typically required in businesses that need shift workers to use the same DECT handset.

Secure messaging, alerting, alarming, lone-worker functionality, ATEX handset support, and integration with advanced business productivity applications are all possible with application partner solutions.

Whether it is the number of mobile employees, the number of available voice channels, or the need for growth potential and greater geographical reach, the IP-DECT Server 6500 can fulfill your business' current and future DECT wireless mobility needs and requirements.

Benefits

- Supports up to 4,000 users and 1,000 simultaneous calls
- Interoperable with market leading Call Control and Unified Communications (UC/UCaaS) platforms
- Supports Redundancy and High Availability when deployed as a load-balancing cluster with automatic failover
- Provides branch survivability – if connection with host UC/UCaaS platform is lost.
- Modular, scalable & upgradable as capacity & business needs grow

DECT security

TECHNOLOGY ALLIANCE PARTNERS

We integrate with multiple calling, unified communications, alarms, alerts and messaging platforms.

For current list, visit our Technology Alliance Partner site.

Specifications

Call Control Protocol Support

- Session Initiated Protocol (SIP)

SIP VOIP Support

- Basic calling
- Caller ID
- Call Hold
- Call Transfer
- Call Waiting
- Music on Hold (MOH)

Note: Additional advanced telephony solution available depending on integration with host SIP-PBX (Call control / UC/UCaaS Platform)

Application Protocols

- XML-RPC API supporting:
  - Broadcast Messaging
  - Message Service Functions (MSF)
  - Task Messages
- OAM REST API (AMIE)

Supported Codecs

- G.711 A-law and μ-law
- G.726 (32 kbps - 4 bit ADPCM)
- G.729

Operation And Maintenance

- High-speed Web GUI for administration and maintenance
- Provisioning, maintenance, and supervision of all infrastructure components and Spectralink DECT handsets in the solution
- HTTP with digest authentication
- HTTPS
- Syslog
- SNMP v2

System Architecture

- The Spectralink IP-DECT Server 6500 is a control unit acting as a SIP integration unit to the host SIP Call Control / UC / UCaaS platform, which also controls and handles all other infrastructure elements
- Max. no. of:
  - IP-DECT Base Stations: 1024
  - Simultaneous calls on each IP-DECT Base Station: 11
  - Repeaters on each IP-DECT Base Station: 3
  - Media Resources: 32 (each MR supports 32 Channels)
  - Simultaneous calls with one Media Resource (G.711): 32
  - Simultaneous calls with 32 MR: 1,024
- Registered DECT handsets: scalable to 4,095

Networking

- 10/100 Mbps ethernet port
- Manual or dynamic host configuration protocol (DHCP)
- Time & date sync using Network Time Protocol (NTP)

Provisioning

- System Configuration
- User data
- Server firmware (Software Assurance License required)
- Base station firmware (Software Assurance license required)
- Handset firmware (Software Assurance license required)

Enhanced Provisioning

- The unit can be programmed to download its own configuration and user settings as well as handset firmware and then update the handset firmware based on a programmed schedule (e.g., upgrade at 03:00)

Note: Scheduled firmware update to all the handsets is accomplished via SUOTA, providing totally automated firmware roll-out support to update IP-DECT Server 6500 and all connected Base Stations & handsets.

Approvals (Regulatory Standards)

- Radio Equipment Directive 2014/53/EU
- Low Voltage Directive 2014/35/EU (CE)
- FCC 47 CFR Part 15

Safety (Regulatory Standards)

- UL62368-1 CAN/CSA-C22.2 No. 62368-1
- IEC 62368-1
- AS/NZS 62368-1
- EN 62368-1

Please check our support site for the latest approvals and regulatory compliance.

Environmental Conditions

- Operating temperature: 50 - 104° F (10 - 40° C)
- Storage temperature: 58 - 158° F (-50 - 70° C)
- Relative humidity: between 20% and 80% (non-condensing)
- The equipment is in compliance with the requirements of EU directive 2011/65/EU (ROHS) and 2012/19/EU (WEEE)

Benefits continued

- Delivers high-quality and secure voice communication
- Supports DECT Enhanced Security (Encryption)
- Increases functionality and business efficiency by integrating with ecosystem application partner solutions
- Maximizes employee availability using simple, reliable, and durable handset devices
- Single web portal for administration and maintenance
- 19" rack mounted solution to fit IT infrastructure
- Allows for Automatic Air or LAN (Local Area Network) Sync

Electrical Requirements

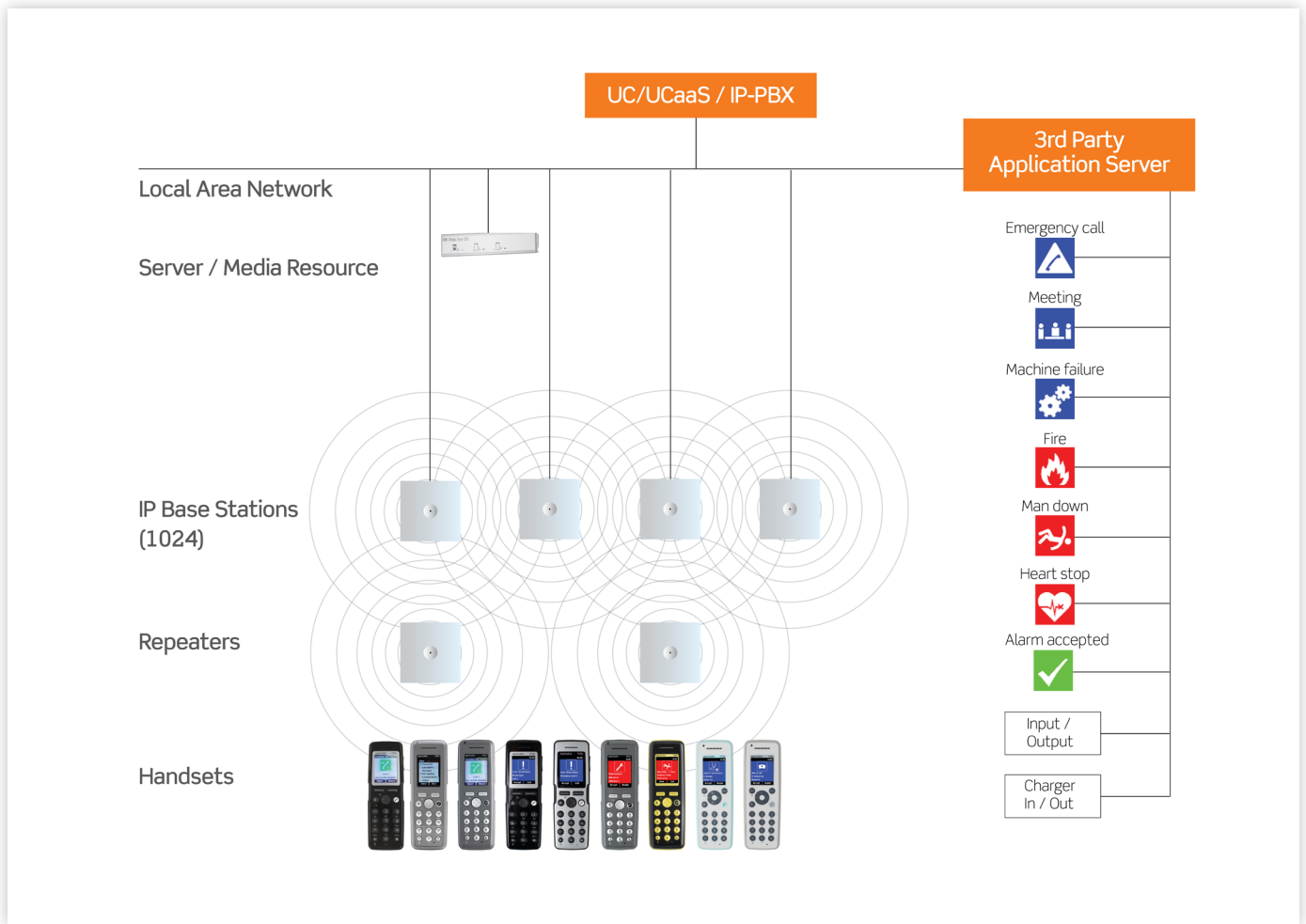- The supplied power for the unit must be 110 to 240 AC nominal, 50/60 Hz

Physical Characteristics

- Size: 17.3 x 7.8 x 1.7 in. (440 x 199 x 44 mm)
- Weight: 83.0 oz (2,354 gr.)
- Grey
- Rack and wall-mountable, indoor
- IP20

Interoperability

- For information about supported Call Control / Unified Communications (UC/UCaaS) (PBX and IP-PBX) platforms, visit support.spectralink.com.

Spectralink IP-DECT Server 6500 Configuration

UC/UCaaS / IP-PBX

3rd Party Application Server

Local Area Network

Server / Media Resource

IP Base Stations (1024)

Repeaters

Handsets

Emergency call

Meeting

Machine failure

Fire

Man down

Heart stop

Alarm accepted

Input / Output

Charger In / Out

Please get in touch with Spectralink sales to learn about the various 3rd party Application Server-based solutions available from our AIMS ecosystem partners.

We support industries like yours...

- Instant notifications make users aware of potentially hazardous situations
- Lone workers can send alarms in case of emergency together with user location.
- Notification in case of machine failure reduces production downtime

- Roam freely with voice and security all within reach
- Communicate clearly with access to tools like nurse call, patient monitoring and workflow apps
- Keep up with the demands of the day with a highly durable handset
- Easily cleanable handset for healthcare standards
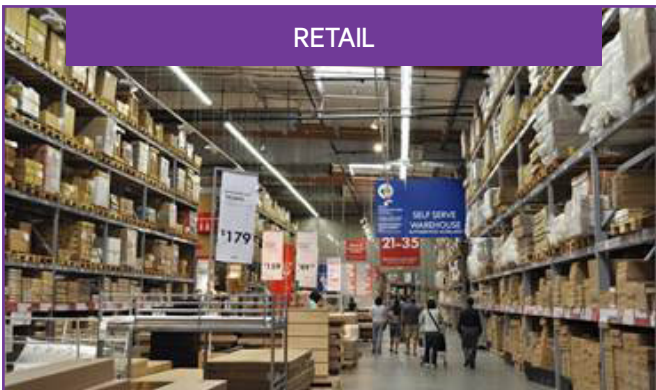
RETAIL

- Streamline operations at every stage of the retail and customers journey
- Send tasks to associates so that they can accept the task based on their schedule and report when the task is done/complete
- Send secure messages (HQ to all branches) – with broadcast, group or individually targeted handsets

HOSPITALITY

- Stay in touch with colleagues no matter their location
- Keep up with the demands of the day with a highly durable handset
- Send tasks to cleaning crew and confirm when rooms are ready for the arriving guests.
- Share guest insights in an instant to deliver highly personalized experiences

Complete your Spectralink DECT Solution

Optimize your Spectralink DECT Solution with AMIE® Advanced for IP-DECT

A cloud-based solution management platform for IT and Telecommunication Administrators to monitor IP-DECT servers, base stations, and handsets, AMIE Advanced for IP-DECT provides centralized provisioning, detailed analytics of system performance, automated and scheduled tasks, and proactive alerts when the infrastructure needs attention.

Protect and enhance the value of your Spectralink mobility solution with Software Assurance

Spectralink Software Assurance is specifically designed to complement and protect your existing Spectralink DECT solution. Software Assurance entitles you to all available software upgrades, including new features, service updates, and security enhancements to mitigate the risk of data loss/breach over your subscription period.

De-risk your investment with Spectralink Professional Services

What's the health of my system?
When do I need to add more capacity?
How do I know if all base stations are still synch'd?
How much are phones being utilized and when?
How do I maintain s/w compliance across servers?
Can I apply the backup of server to another?
Can I automate/schedule backups?
Can I make bulk changes to servers, base station and phones?
How are my phones performing?

WHAT IS GOING ON WITH MY DECT SOLUTION?

Design	Deploy
Strategize your path to success. We analyze and assess your needs based on your business goals, end-user requirements, and existing IT infrastructure to start the process. Then we work with you to map out an effective strategy that brings together the right combination of mobile devices, applications, and technology.	Align and activate your solution. We help put your plan into action with a thorough implementation process that includes configuring, implementing, and testing all aspects of your technical environment. We also provide comprehensive training to help prepare and position your employees for mobile success.

About Spectralink

As an award winner in mobile technology, Spectralink has been transforming the way our customers work and communicate for 30 years. Through our determination to do extraordinary things, we enable mobile workforces and empower our customers and partners to explore what's next, what's possible. With our enterprise grade, best-in-class mobile solutions, we are with our customers wherever they work, however they need us. Our people, commitment to innovation and our passion are our foundation for success.

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