

# Spectralink IP-DECT Server 400

SIP Based Mobility Solution  
for Small to Medium-sized Businesses



## BENEFITS

- Interoperable with market leading Call Control and Unified Communications (UC) platforms
- Upgradable via licenses as business needs grow
- Leverages the existing infrastructure
- Delivers high-quality and secure voice communication
- Increases business efficiency by integrating with application systems and business processes
- Can be installed in multiple locations to ensure mobility
- Use an external antenna to expand coverage
- Allows for synchronization via air or LAN (Local Area Network)

Spectralink offers a scalable IP-DECT solution that can grow and develop with your business – as your business grows in its facility size or number of employees. The Spectralink IP-DECT Server 400 supports up to 30 wireless users and up to 12 simultaneous calls – depending on how you setup, configure and deploy your solution. This scalability ensures that the Spectralink IP-DECT Server 400 solution can grow with your business to fit your exact needs, making it a future-proof solution for small to medium-sized businesses.

The Spectralink IP-DECT Server 400 can be deployed as either a single-cell or a multi-cell solution. The single-cell option is extremely easy to deploy and install due to its intuitive menu structure. Moreover, it is ideal as a hosted solution because it has the capability for provisioning configuration, firmware, and wireless users as well as V LAN tagging. When there is a need for more users or coverage of a larger area or multiple locations, the solution can be upgraded to a multi-cell solution, supporting up to three additional IP-DECT Base Stations.

By using the right license keys, businesses can design and configure the Spectralink IP-DECT Server 400 to support their exact business requirements.

Spectralink IP-DECT Server 400 supports the Spectralink external antenna\*, which is an ideal choice for expanding coverage or creating synchronization over the air in normally inaccessible areas such as freezing rooms, cruise ships or long corridors.

*\* Spectralink external antennas are the only approved antenna for the Spectralink IP-DECT Server 400. Connecting 3<sup>rd</sup> party external antennas is not supported and will not work.*

# SPECIFICATIONS

## PROTOCOL SUPPORT

- Session Initiated Protocol (SIP)

## OPERATION AND MAINTENANCE

- Single web portal for administration and maintenance of the entire DECT infrastructure
- HTTP with digest authentication
- HTTPS
- Syslog
- SNMP

## SYSTEM ARCHITECTURE

- The Spectralink IP-DECT Server 400 is both a radio unit and a SIP integration unit to the host SIP Call Control / UC platform. Additionally, it controls and handles the Spectralink IP DECT Base Stations
- **Single-cell configuration:**  
1 x Spectralink IP-DECT Server 400 and up to 3 x Spectralink DECT Repeaters (2 or 4 channel multi-cell)  
12 wireless users / six simultaneous calls  
Optional 30 users / 11 simultaneous calls \*
- **Multi-cell configuration:**  
1 x Spectralink IP-DECT Server 400, up to 3 x Spectralink IP-DECT Base Stations and up to 3 x Spectralink DECT Repeaters (2 or 4 channel multi-cell) connected on each IP-DECT Server or Base Station.  
12 wireless users / six simultaneous calls  
Optional 30 users / 12 simultaneous calls

## OPTIONAL LICENSES

- 12 simultaneous calls and 30 users license
- Microsoft® Lync® license
- Cisco Unified Communications Manager license (only available in EMEA and APAC)
- Multi-cell license
- G.729 audio codec optional license
- Automatic Alarm Call license
- Handset Sharing license

## SUPPORTED CODECS

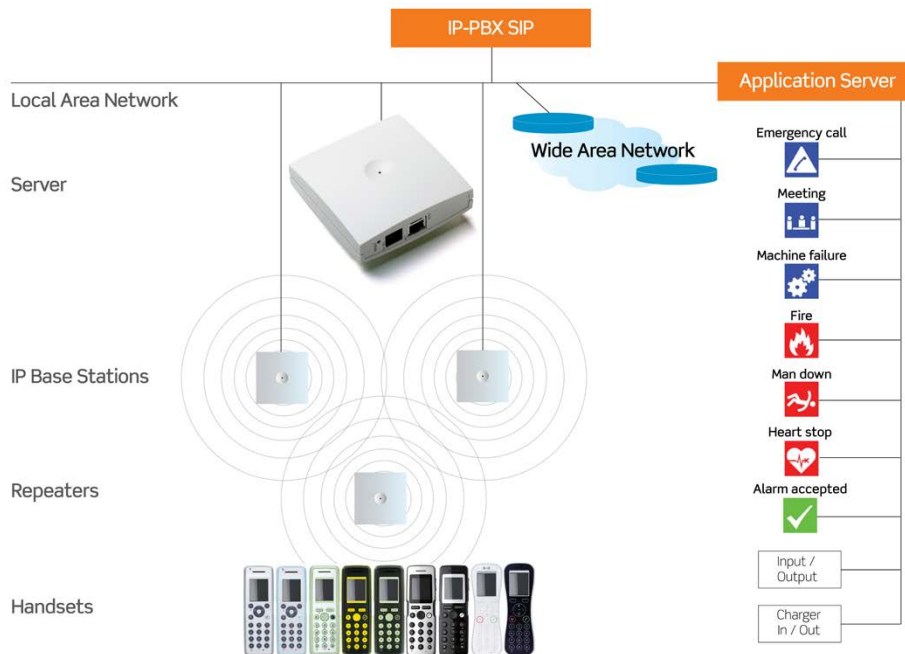
- G.711 A-law and  $\mu$ -law
- G.726 (32 Kbps - 4 bit ADPCM)
- G.729 (optional license required)

## NETWORK AND PROVISIONING

- 10/100 Mbps Ethernet port
- Manual or dynamic host configuration protocol (DHCP)
- Time and date synchronization using Network Time Protocol (NTP)
- LED status indication

\* The Spectralink IP-DECT Server 400 does have 12 channels, but due to the functionality of DECT it is only possible to have 11 concurring channels when operating as single cell (using only one radio).

## Spectralink IP-DECT Server 400 Configuration



## SPECIFICATIONS (CONT.)

### RADIO INTERFACE

- RF output 20 to 24 dBm at antenna connection
- Sensitivity: typical -90 dBm measured at antenna connection at BER = 0.001
- Typical range:
  - Indoor: 20 - 50 m. (66 - 164 ft.)
  - Outdoor: 300 m. (984 ft.)
- Possible to connect external antenna  
(Only Spectralink external antenna can be used)

### ELECTRO MAGNETIC COMPATIBILITY (EMS) APPROVALS (REGULATORY STANDARDS)

- EN 301 489-1
- EN 301 489-6
- FCC RULES, FCC PART15
- ANSI C63.4

### SAFETY (REGULATORY STANDARDS)

- UL60950-1
  - CAN/CSA-C22.2 No. 60950-1
  - AS/NZS 60950-1
- EN 60950-1

### DECT APPROVAL

- EN 301 406

*Note: For latest approvals and regulatory compliance, please check our website.*

### ENVIRONMENTAL CONDITIONS

- Operating temperature: 10° - 40° C (50° - 104° F)
- Storage temperature: -50° - 70° C (-58° - 158° F)
- Relative humidity: between 20% and 80% (non-condensing)
- The equipment is in compliance with the requirements of EU directive 2002/95/EC (ROHS) and 2002/96/EC (WEEE)

### ELECTRICAL REQUIREMENTS

- Power over Ethernet (IEEE 802.3af), mode A & B
- PoE Class 1 device
- Typical power consumption: 3W per unit
- External power outlet (power supply must be ordered separately)

### PHYSICAL CHARACTERISTICS

- Size: 100 x 100 x 38 mm (3.9 x 3.9 x 1.5 in.)
- Weight: 120 gr. (4.2 oz)
- Grey-white (NCS 0502-Y)
- Wall-mountable, indoor
- The server can be mounted upside down

### INTEROPERABILITY

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

## About Spectralink

Spectralink delivers secure, cost-effective mobile communication solutions that empower enterprises to streamline operations, increase their revenues and deliver a positive customer experience – each and every time. Since 1990, Spectralink has deployed millions of devices worldwide across the retail, healthcare, hospitality and manufacturing sectors – providing workers with the industry's most efficient, in-building communications.

For more information, visit [spectralink.com](http://spectralink.com) or call 303.441.7500.



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