

# 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)
- System Scales to 60 Users, and 9 additional IP-Base Stations

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 60 wireless users and up to 24 simultaneous calls (codec dependent) – 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 has a built-in DECT radio Base Station and 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 VLAN 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 9 additional IP-DECT Base Stations.

By using the right optional 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

- High speed Web GUI for administration and maintenance of the entire infrastructure
- HTTP with digest authentication
- HTTPS
- Syslog
- SNMP

## SYSTEM ARCHITECTURE

- The Spectralink IP-DECT Server 400 is both a radio unit and a SIP DECT controller 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) 12 wireless users / 6 simultaneous calls
- **Multi-cell configuration:**  
1 x Spectralink IP-DECT Server 400, up to 9 x Spectralink IP-DECT Base Stations and up to 3 x Spectralink DECT Repeaters (2 or 4 channel multi-cell) connected on each Spectralink IP-DECT Server or Spectralink IP-DECT Base Station \*\*. Optional 60 users/24 simultaneous calls
- **Base Station Capacity:**  
Single-Cell: 12 channels  
Multi-Cell: 11 channels (Air-Sync)

## APPLICATION PROTOCOLS

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

## SUPPORTED CODECS

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

## OPTIONAL LICENSES

- License to upgrade from single-cell to Multi-cell with +48 users, 24 simultaneous calls, and support for up to 9 external IP-Base Stations.
- OAM-REST-API
- 12 simultaneous calls and +24 users license
- Microsoft® Skype for Business® license – either +6 users or ALL users
- Cisco Unified Communications Manager license (only available in EMEA and APAC)
- Multi-cell license
- Automatic Alarm Call license
- Handset Sharing license

## PROVISIONING

- 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).

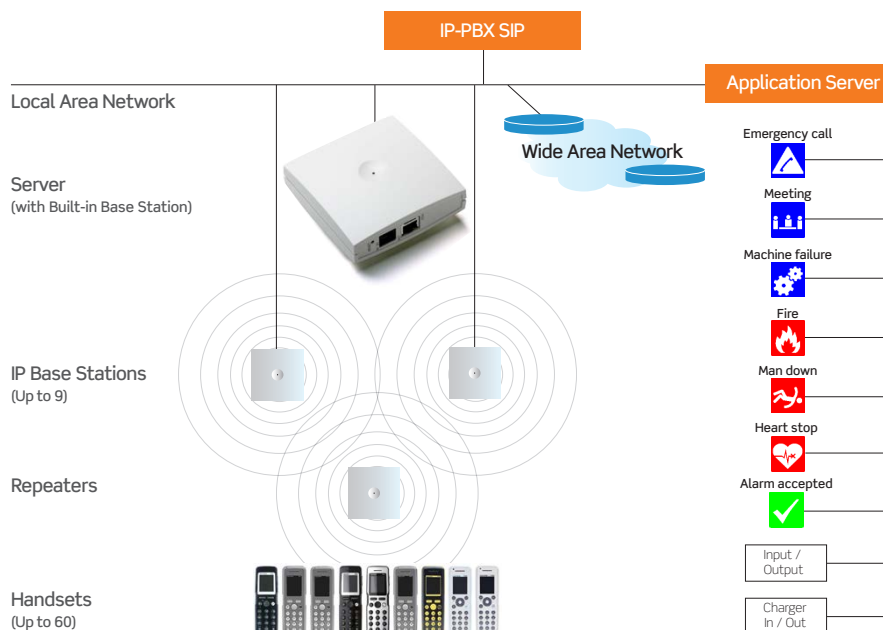
*Note: Scheduled firmware update to all the handsets is accomplished via SUOTA, providing totally automated firmware roll-out support to update IP-DECT Server 400 and all connected Base Stations & handsets.*

## NETWORKING

- 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 Base Station does have 12 channels, but only 11 can be used when synchronizing over the air.*

## 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
- Average transmit power: typical 5mW/ch (US) or 10mW/ch. (EU)
- Peak transmit power: typical 125mW (US) or 250mW (EU)
- Typical range:
  - Indoor: 20 - 50 m. (65 - 165 ft.)
  - Outdoor: 300 m. (1000 ft.)
  - Full slot DECT radio (12 channels)
- Possible to connect external antenna  
(Only Spectralink external antenna can be used)

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

- MC 301 489-1
- MC 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 RADIO APPROVAL

- EN 301 406

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

### 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 2011/65/EU (ROHS) and 2012/19/EU (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 43 mm (3.94 x 3.94 x 1.69 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).

## ORDERING INFORMATION

Please contact your local Spectralink partner for ordering and pricing information.

#	SKU	PRODUCT DESCRIPTION
1	02344500	Spectralink IP-DECT Server 400, Single-Cell, 1G8 version. Incl. 12 users
2	02344501	Spectralink IP-DECT Server 400, Single-Cell, 1G9 version. Incl. 12 users

## 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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