



Product Guide

SPECTRALINK S1000 IP-DECT PLATFORM

Fastrack your Frontline workers: DECT that simply scales.

The **Spectralink S1000** is the next-generation IP-DECT platform expertly engineered for the hybrid enterprise. By consolidating server, base station, and media resources into one scalable unit, it delivers professional Unified Communications voice and mission-critical resilience to your deskless workforce, deployed via the cloud with unprecedented speed and simplicity.

Commercial Simplicity

One SKU, zero hassle: Simplify procurement with a single global SKU that replaces fragmented hardware and streamlines quoting, ordering, and fulfillment.

Quote faster: Reduce quoting errors and pre-sales effort. The S1000 makes BOM creation easier for partners to propose, price, and close deals quickly.

Operational Efficiencies

Scale on demand: Add units for coverage, or users via AMIE. Stackable hardware and zero-touch provisioning make it easy to grow without rework.

Built-in safety: Integrated alarm handling and location services eliminate the need for standalone alerting systems, reducing cost and complexity.

Future-proof Technology

Switch platforms, not hardware: Easy migration to Microsoft Teams, Zoom, Webex or any UC platform with no middleware, retraining or hardware changes needed.

Grow without disruption: Add licenses or scale coverage instantly via AMIE. Built for long-term value with cloud licensing, security patches, and updates.

Mission-critical Design

More than a platform, it's a lifeline: With alarm handling, man-down detection, the S1000 protects your people and keeps them connected.

Secure, resilient, reliable: Built-in security, local survivability, and AMIE diagnostics reduce downtime and support load, so your partners can focus on scale.

Built by experts, backed by experience: With 30+ years in mission-critical comms, Spectralink brings engineering expertise to every deployment, for total confidence and support.

Platform Capacity & Coverage

Feature

Max. 1,000 base stations per S1000 Server

Max. 4,000 handsets per S1000 Server

Indoor Range: up to 50 meters

Outdoor Range: up to 300 meters

12 radio and 12 media channels per S1000 base station

Radio and LAN synchronization

Load balancing and failover (2x Servers)

Benefit

High Scalability: Supports large installations across extensive campuses or multi-floor buildings.

Large Capacity: Accommodates a substantial number of enterprise users for large workforces.

Reliable Indoor Coverage: Ensures clear communication within typical office or facility environments.

Extended Outdoor Coverage: Maintains connectivity for staff working across wide outdoor areas.

High Density: Allows for a high number of simultaneous calls within the coverage area.

Seamless Mobility: Enables reliable, seamless handover between base stations without dropped calls.

Business Continuity: Ensures system availability and reliability through redundancy.

Connectivity & Integrations

Feature

Microsoft Teams SIP Gateway

Cisco Unified Communications Manager

Open standards (SIP) Interop

G.711 A-law/ μ -law, G.726, G.729 Audio Codecs

10/100 Mbps Ethernet

Power over Ethernet (PoE) IEEE 802.3af

Benefit

Seamless UC Integration: Connects directly with Microsoft Teams phone systems.

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Broad Compatibility: Works with major third-party phone systems like Avaya, Zoom, and RingCentral.

Universal Voice Quality: Supports industry-standard voice compression for clear audio across networks.

Standard Network Connection: Provides reliable wired connection to your existing network.

Simplified Installation: Allows the unit to receive power and data over a single network cable.

Security

Feature

Enhanced DECT Security Step B (AES-128)

Re-keying during a call

TLS v1.3

Secure RTP (SRTP)

HTTPS for Web Interface

Benefit

Maximum Call Protection: Encrypts all calls using strong encryption (AES-128) for privacy.

Improved Security: Constantly changes the encryption key to prevent unauthorized interception.

Secure Data Transfer: Uses the latest protocol to protect communication between the server and devices.

Secure Voice Traffic: Encrypts the voice data packets during transmission for enhanced privacy.

Secure Management: Encrypts the connection to the configuration interface to protect settings.

Messaging & APIs

Feature

Personal, Group, and Broadcast messaging

Icon (alarm, alert) messaging

XML-RPC API, Message Service Functions (MSF) I, II, III

Webhooks API

Benefit

Improved Productivity: Quickly send important alerts and messages to one or many handsets.

Critical Notifications: Easily sends urgent, attention-grabbing alerts for critical events.

Custom Integration: Allows for deep integration with third-party applications and systems.

Real-Time Monitoring: Sends instant event notifications to external systems for immediate response.

Configuration & Maintenance

Feature

AMIE for IP-DECT

Remote Over-the-Air software updates

Backup and restore

Syslog and SNMP v2

Benefit

Centralized Management: Provides advanced tools for configuring, monitoring, and maintaining the system.

Efficient Maintenance: Updates handset firmware without physically docking each device.

Easy Recovery: Allows system settings to be saved and quickly restored if needed.

Network Monitoring: Integrates with standard tools for network fault and performance management.



S1000 IP-DECT TECH SPEC

DECT Frequencies

- 1880-1900 MHz (Europe, Africa, Middle East, Australia, New Zealand and parts of Asia)
- 1920-1930 MHz (North America)

Range

- Indoor: up to 50 metres / 165 feet
- Outdoor: up to 300 metres / 1,000 feet

Radio

- RF output 20 to 24 dBm at the antenna connection
- Sensitivity:
 - typical -90 dBm measured at antenna connection
- Average transmit power:
 - typical 5mW per channel (NA) or 10mW/channel (EMEA, ANZ)
- Peak transmit power:
 - <125 mW (NA) or 250mW (EMEA, ANZ)

Capacity:

- Base Stations:
 - Max.1,000 base stations per S1000 IP-DECT Server
 - Approximate 750,000 sq.m. / 6 million sq.ft. with seamless handover and roaming – coverage can be higher or lower depending on building.
 - Radio and LAN synchronization
- Channels:
 - 12 radio and 12 media channels per S1000 unit
- Handsets:
 - Max. 4,000 handsets per S1000 IP-DECT Server
- Redundancy:
 - Load balancing and failover between 2x S1000 IP-DECT Servers

Phone System Integrations

- Microsoft Teams SIP Gateway
- Cisco Unified Communications Manager
- Open standards (SIP) Interop to third party phone system platforms including 8x8, Avaya, dstny, RingCentral, Webex, Zoom. See Spectralink Interop guides for details.

Messaging

- Compose messages in S1000 WebGUI to send to S Series DECT handsets
- Personal and Group messaging:
 - up to 180 characters
- Broadcast messaging:
 - up to 19 characters
- Icon (alarm, alert) messaging to S Series DECT handsets S35 and S37

Provisioning and Configuration

- AMIE for IP-DECT
- Configuration template wizard
- Scheduled firmware updates
- Backup and restore
- Enterprise Software Plan license management
- Remote Software Updates:
 - Over-the-Air software updates

Operations and Maintenance

- AMIE for IP-DECT
- S1000 Web browser
- HTTP with digest authentication
- HTTPS
- Syslog
- SNMP v2
- VLAN tagging

Security

- Enhanced DECT Security Step B:
 - Encryption of all calls
 - Re-keying during a call
 - DECT Standard Authentication Algorithm 2 (DSAA2) built on Advanced Encryption Standard (AES) algorithm with 128 key length – AES-128
- TLS v1.3
- Secure RTP
- HTTPS

Application Program Interfaces (API)

- XML-RPC API
- Message Service Functions (MSF) I, II, III
- Webhooks API:
 - Subscribe to system, user and base station events

Audio Codecs

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

User Interfaces

- LED status indication, multicolour
- Reset key
- Web interface

Network

- Ethernet: 10/100 Mbps
- Manual or dynamic host configuration protocol (DHCP)
- Time and date sync using Network Time Protocol
- Event logging
- SIP protocol support

Indicators

- Multicolour LED status indication
- Reset button

Power

- Power over Ethernet (POE) IEEE 802.3af
- External power supply

Physical

- Weight: 120g (4.2 oz)
- Dimensions: 100x100x43mm / 3.94 x 3.94 x 69 inches
- Colour:White
- Wall-mountable: Indoor
- Accessories:
 - Spectralink External Antenna: extended, directional radio coverage
 - Spectralink DECT Repeaters: up to 3 per S1000 unit

Environmental

- Operating temperature:
 - -10 °C to +40 °C (-14 °F to +104 ° F)
- Storage temperature:
 - -50 °C to +70 °C (-58 °F to +158 °F)
- Relative humidity:
 - - 20% to 80%, non-condensing

Compliance to European Regulations and Standards

- EU directives:
 - 2014/53/EU (RED), 2015/863/EU (ROHS 3), 2012/19/EU (WEEE)
- Safety:
 - EN 62368-1
- EMC/Radio:
 - EN 301 489-1, EN 301 489-6, EN 301 406

Compliance to US and Canada Regulations and Standards

- Safety:
 - UL62368-1, CAN/CSA-C22.2 No. 62368-1
- EMC/Radio:
 - FCC 47 CFR Part 15, subparts B, C, and D

Compliance to Australia Regulations and Standards

- Safety :
 - AS/NZS 62368-1
- EMC/Radio:
 - AS/NZS CISPR 32, AS/NZS 4268

Please check our [support site](#) for the latest approvals and regulatory compliance

SKU Numbers

Class	P-ID	Short Description
Product	71231000	S1000 IP-DECT
Service	72713001	Enterprise Software Plan 1 Year
Service	72713003	Enterprise Software Plan 3 Year
Service	72713005	Enterprise Software Plan 5 Year

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.