Spectralink IP-DECT/DECT/Virtual IP-DECT Server Feature List

	Server 200	Server 400	Server 6500	Virtual Server One	Server 2500	Server 8000
Functionality						
COTA	✓	✓	✓	✓	-	-
G.729 codec	✓	✓	✓	✓	-	-
Support of lone-worker (Tek-tronik)	-	-	-	-	✓	✓
Analog interface	-	-	-	-	✓	✓
DECT to DECT calls	-	-	-	-	✓	✓
Fre-quency swap *	✓	✓	✓	✓	✓	✓

	Server 200	Server 400	Server 6500	Virtual Server One	Server 2500	Server 8000
Messaging over MSF	✓	✓	✓	✓	✓	✓
Internal routing when all proxies are black listed	✓	✓	✓	✓	-	-
Radio based synchronization	-	✓	✓	✓	✓	✓
LAN based synchronization (License required)	-	✓	✓	✓	✓	✓

	Server 200	Server 400	Server 6500	Virtual Server One	Server 2500	Server 8000
Mix of Radio based and LAN based synchron-ization	-	✓	✓	✓	✓	✓
Broadcast mes-saging **	✓	✓	✓	✓	✓	✓
Redund-ancy	-	-	✓	✓	-	-

	Server 200	Server 400	Server 6500	Virtual Server One	Server 2500	Server 8000
Handset Sharing	✓ 1 device can connect to 1 user account/SIP account. Login/Logout only using Longpress 9.	✓ 1 device can connect to 1 user account/SIP account. Login/Logout only using Longpress 9.	✓ 1 device can connect to 1 user account/SIP account. Login/Logout only using Longpress 9.	✓ 1 device can connect to 1 user account/SIP account. Login/Logout only using Longpress 9.	✓ Up to 3 devices can connect to 1 user account/SIP account. Login/Logout can be done in a combination of using Longpress 8, turning handset on/off and removing/replacing handset from/in charger (depending on the settings chosen).	✓ Login/Logout can be done in a combination of using Longpress 8, turning handset on/off and removing/replacing handset from/in charger (depending on the settings chosen).
Hide Web GUI	✓	✓	✓	✓	-	-
Codecs Supported	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.
SIP VOIP support	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.
Analog line support	-	-	-	-	✓ Click for information.	✓ Click for information.

	Server 200	Server 400	Server 6500	Virtual Server One	Server 2500	Server 8000
Interoperability						
SIP - generic	✓	✓	✓	✓	✓	✓
SIP - SfB	✓	✓	✓	✓	✓	✓
SfB - PIN Auth.	✓	✓	✓	✓	-	-
SIP - CUCM	✓	✓	✓	✓	✓	✓
Keyyo features	✓	✓	✓	✓	-	-
Extended Funktel support	✓	✓	✓	✓	-	-
Inter-operability	For information about supported Call Control/Unified Communications (UC) (PBX and IP-PBX) platforms, visit http://support.spectralink.com/.	For information about supported Call Control/Unified Communications (UC) (PBX and IP-PBX) platforms, visit http://support.spectralink.com/.	For information about supported Call Control/Unified Communications (UC) (PBX and IP-PBX) platforms, visit http://support.spectralink.com/.	For information about supported Call Control/Unified Communications (UC) (PBX and IP-PBX) platforms, visit http://support.spectralink.com/.	For information about supported Call Control/Unified Communications (UC) (PBX and IP-PBX) platforms, visit http://support.spectralink.com/.	For information about supported Call Control/Unified Communications (UC) (PBX and IP-PBX) platforms, visit http://support.spectralink.com/.

	Server 200	Server 400	Server 6500	Virtual Server One	Server 2500	Server 8000
Technical						
Site based paging	✓	✓	✓	✓	-	-
Zone based paging ***	-	-	✓ Only supported on Spectralink DECT Handsets with PCS 19C_ or newer. Not supported on repeaters.	✓ Only supported on Spectralink DECT Handsets with PCS 19C_ or newer. Not supported on repeaters.	-	-
Sec-ondary username	✓	✓	✓	✓	-	-
Support for Digital base sta-tion	-	-	-	-	✓	✓
IP-DECT Base Sta-tion	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.

	Server 200	Server 400	Server 6500	Virtual Server One	Server 2500	Server 8000
Digital DECT Base Station	-	-	-	-	✓ Click for information.	✓ Click for information.
Merge XML files from provisioning	✓	✓	✓	✓	-	-
Operation and maintenance	Click for information.	Click for information.	Click for information.	Click for information.	Click for information.	Click for information.
System Architecture	Click for information.	Click for information.	Click for information.	Click for information.	Click for information.	Click for information.
Network	Click for information.	Click for information.	Click for information.	Click for information.	Click for information.	Click for information.
Radio Interface	✓ Click for information.	✓ Click for information.	-	-	-	-
Security						
DECT security step A	✓	✓	✓	✓	-	-

	Server 200	Server 400	Server 6500	Virtual Server One	Server 2500	Server 8000
Web GUI HTTP and HTTPS	✓	✓	✓	✓	✓	✓
Support for TLS in Media resource and IP-base station	✓	✓	✓	✓	-	-
TLS 1.3	✓	✓	✓	✓	✓	✓
Protocols						
XML-RPC	✓	✓	✓	✓	✓	✓
OAM REST API	✓	✓	✓	✓	-	-
EMD messaging	-	-	-	-	✓	✓
TAP messaging	-	-	-	-	✓	✓

	Server 200	Server 400	Server 6500	Virtual Server One	Server 2500	Server 8000
Pro-visioning	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.
Protocol Support	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.	✓ Click for information.

* **Note**: Besides the Frequency Swap License, a special Spectralink DECT Handset 7212 (part no. 02610004) with a special configuration (and compliance to be compatible with frequency swap) is also required.

** Following is supported:

- MSF II: 19 characters
- MSF III: 55 characters + Advanced color icon Support

*** Zone based paging is built on the DECT Standard for Location Area Level (LAL).

Technical Specification

Below you will find technical specifications of the different Spectralink Server Solution components:

- [Spectralink IP-DECT Server 200](#)
- [Spectralink IP-DECT Server 400](#)
- [Spectralink IP-DECT Server 6500](#)
- [Spectralink DECT Server 2500](#)
- [Spectralink DECT Server 8000](#)
- [Spectralink Digital DECT Base Station](#)
- [Spectralink IP-DECT Base Station](#)
- [Spectralink DECT Repeater](#)
- [Spectralink External Antenna](#)

Spectralink IP-DECT Server 200

PROTOCOL SUPPORT

- Session Initiated Protocol (SIP)
- Broadcast Messaging
- Message Service Functions (MSF)
- XML-RPC
- OAM-REST-API

SIP VOIP SUPPORT

- Basic call
- CLIP
- Call Hold
- Call Transfer
- Call Waiting
- Music on Hold (MOH)

OPERATION AND MAINTENANCE

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

SYSTEM ARCHITECTURE

- The Spectralink IP-DECT Server 200 is both a radio unit and a SIP integration unit to the host SIP Call Control / UC platform.
- 1 x Spectralink IP-DECT Server 200 and up to 3 x Spectralink DECT Repeaters (2 or 4 channel multi-cell)

  12 wireless users/six simultaneous calls

SUPPORTED CODECS

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

NETWORK

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

PROVISIONING

- Configuration
- User data
- Server firmware
- Handset firmware

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 (EMC) APPROVALS (REGULATORY STANDARDS)

- EMC: EN 301 489 - 1
- EMC: 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
- Safety: EN 60950 - 1

DECT RADIO APPROVAL

- EN 301 406

ENVIRONMENTAL CONDITIONS

- Operating temperature: 10 - 40º C (50 - 104º F)
- Storage temperature: -50 - 70º C (-58 - 158º F)
- Relative humidity: between 20% and 80% (non-condensing)
- Compliance with the requirements of EU directive 2015/863/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: 3 W per unit
- External power outlet (power supply must be ordered separately)
- External antenna connection (Only Spectralink External Antenna can be used)

PHYSICAL CHARACTERISTICS

- Size: 100 x 100 x 43 mm (3.94 x 3.94 x 1.69 in.)
- Weight: 120 gr. (4.2 oz)
- Black (Pantone Black)
- Wall-mountable, indoor
- Can be mounted upside down

INTEROPERABILITY

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

Spectralink IP-DECT Server 400

PROTOCOL SUPPORT

- Session Initiated Protocol (SIP)
- Broadcast Messaging
- Message Service Functions (MSF)
- XML-RPC
- OAM-REST-API

SIP VOIP SUPPORT

- Basic call
- CLIP
- Call Hold
- Call Transfer
- Call Waiting
- Music on Hold (MOH)

OPERATION AND MAINTENANCE

- 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 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 60 users *

> **Note:**
>
> * The Spectralink IP-DECT Server 400 does have 12 channels, but is limited to 6 channels in basic version.

- 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 **.

  12 wireless users/six simultaneous calls

  Optional 60 users/24 simultaneous calls

> **Note:**
>
> * * The Spectralink IP-DECT Base Station does have 12 channels, but only 11 can be used when synchronizing over the air.

SUPPORTED CODECS

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

NETWORK

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

PROVISIONING

- Configuration
- User data
- Server firmware
- Base station firmware (License required)
- Handset firmware (License required)

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 (EMC) APPROVALS (REGULATORY STANDARDS)

- EMC: EN 301 489 - 1
- EMC: 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
- Safety: EN 60950 - 1

DECT RADIO APPROVAL

- EN 301 406

ENVIRONMENTAL CONDITIONS

- Operating temperature: 10 - 40º C (50 - 104º F)
- Storage temperature: -50 - 70º C (-58 - 158º F)
- Relative humidity: between 20% and 80% (non-condensing)
- Compliance with the requirements of EU directive 2015/863/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: 3 W per unit
- External power outlet (power supply must be ordered separately)
- External antenna connection (Only Spectralink External Antenna can be used)

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
- Can be mounted upside down

INTEROPERABILITY

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

Spectralink IP-DECT Server 6500

PROTOCOL SUPPORT

- Session Initiated Protocol (SIP)
- Broadcast Messaging
- Message Service Functions (MSF)
- XML-RPC
- OAM-REST-API

SIP VOIP SUPPORT

- Basic call
- CLIP
- Call Hold
- Call Transfer
- Call Waiting
- Music on Hold (MOH)

OPERATION AND MAINTENANCE

- Web GUI for administration and maintenance of the entire infrastructure
- Provisioning, maintenance, and supervision of all infrastructure components and Spectralink 7000 handsets in the solution
- HTTP with digest authentication
- HTTPS

- Syslog
- SNMP

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 (IP-PBX) platform, which also controls and handles all other infrastructure elements
- Max. no. of:
  - Spectralink IP-DECT Base Stations: 1024
  - Simultaneous calls on each Spectralink IP-DECT Base Station: 12
  - Spectralink DECT Repeater on each Spectralink IP-DECT Base Station: 3
  - Spectralink DECT Media Resources: 32
  - Simultaneous calls with one Spectralink DECT Media Resource (G.711): 32
  - Simultaneous calls with 32 Spectralink DECT Media Resources: 1024
- Registered Spectralink 7000 handsets: scalable to 4096 stepwise: 30 users, 150 users, 500 users, 1500 users, 4096 users

SUPPORTED CODECS

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

NETWORK

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

PROVISIONING

- Configuration
- User data
- Server firmware
- Base station firmware (License required)
- Handset firmware (License required)

APPROVALS (REGULATORY STANDARDS)

- EN 55022
- EN 55024: A, A2
- FCC RULES, CRF47, PART15, class B digital device

SAFETY (REGULATORY STANDARDS)

- UL 60950-1 CAN/CSA-C22.2 No. 60950-1-03
- UL File No: E170690
- IEC 60950-1
- Safety: EN 60950 - 1
- AS/NZS 60950-1

ENVIRONMENTAL CONDITIONS

- Operating temperature: 10 - 40º C (50 - 104º F)
- Storage temperature: -50 - 70º C (-58 - 158º F)
- Relative humidity: between 20% and 80% (non-condensing)
- Compliance with the requirements of EU directive 2015/863/EU (ROHS) and 2012/19/EU (WEEE)

ELECTRICAL REQUIREMENTS

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

PHYSICAL CHARACTERISTICS

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

INTEROPERABILITY

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

Spectralink Virtual IP-DECT Server One

PROTOCOL SUPPORT

- Session Initiated Protocol (SIP)
- Broadcast Messaging
- Message Service Functions (MSF)
- XML-RPC
- OAM-REST-API

SIP VOIP SUPPORT

- Basic call
- CLIP
- Call Hold
- Call Transfer
- Call Waiting
- Music on Hold (MOH)

OPERATION AND MAINTENANCE

- Web GUI for administration and maintenance of the entire infrastructure
- Provisioning, maintenance, and supervision of all infrastructure components and Spectralink 7000 handsets in the solution
- HTTP with digest authentication
- HTTPS

- Syslog
- SNMP

SYSTEM ARCHITECTURE

- The Spectralink Virtual IP-DECT Server One is a control unit acting as a SIP integration unit to the host SIP Call Control / UC (IP-PBX) platform, which also controls and handles all other infrastructure elements
- Max. no. of:
  - Spectralink IP-DECT Base Stations: 2048
  - Simultaneous calls on each Spectralink IP-DECT Base Station: 12
  - Spectralink DECT Repeater on each Spectralink IP-DECT Base Station: 3
  - Spectralink DECT Media Resources: 32 - each with 32 channels
  - Spectralink Virtual IP-DECT Media Resources: 16 - each with up to 64 channels
  - Simultaneous calls with one Spectralink DECT Media Resource (G.711): 32
  - Simultaneous calls with 32 Spectralink DECT Media Resources: 1024
  - Simultaneous calls with one Spectralink Virtual IP-DECT Media Resource (G.711): 64
  - Simultaneous calls with 16 Spectralink Virtual IP-DECT Media Resource : 1024
- Registered Spectralink 7000 handsets: scalable to 4096 stepwise: 30 users, 150 users, 500 users, 1500 users, 4096 users

SUPPORTED CODECS

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

NETWORK

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

PROVISIONING

- Configuration
- User data
- Server firmware
- Base station firmware (License required)
- Handset firmware (License required)

INTEROPERABILITY

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

Spectralink DECT Server 2500

ANALOG LINE SUPPORT

- CLIP FSK Bellcore
- DTMF CLIP
- Loop break
- DTMF transmit
- Dial and busy tone detect

PROTOCOL SUPPORT

- Session Initiated Protocol (SIP)
- Broadcast Messaging
- Message Service Functions (MSF)
- Event Message Description (EMD)
- Telocator Alphanumeric Protocol 1.8 (TAP)
- XML-RPC

SIP VOIP SUPPORT

- Basic call
- CLIP
- Call Hold
- Call Transfer

- Call Waiting
- Music on Hold (MOH)

OPERATION AND MAINTENANCE

- Web GUI for administration and maintenance of the entire infrastructure
- HTTP with digest authentication

SYSTEM ARCHITECTURE

- Stable system core based on Linux
- Faster access to standard protocols
- Room for one CPU card without link and three interface cards
- Max. no. of:
  - Registered Spectralink DECT Handsets (VoIP interface): recommended to keep below 150, but more handsets can be subscribed if low telephone traffic on server.
  - Registered Spectralink DECT Handsets (analogue interface): 32
  - Spectralink Digital DECT Base Stations: up to eight per base station interface card
  - Spectralink DECT Repeaters: 3 per base station
  - Spectralink IP-DECT Base Station option: 64 (each active call takes up two channels on the media resource card)
- Interface Cards:
  - AB08/16 interface card: 8/16 analog telephone lines
  - BIF08 interface card: drives up to eight base stations
  - MR32 interface card: media resource card for 32 VoIP connections

SUPPORTED CODECS

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

NETWORK

- 10/100 Mbps Ethernet port
- Manual or dynamic host configuration protocol (DHCP)
- Time and date synchronization
- Event logging

PROVISIONING

- Configuration
- User data
- Server firmware
- Base station firmware (License required)
- Handset firmware (License required)

APPROVALS (REGULATORY STANDARDS)

- EN 55022, Class A
- EN 55024: A, A2
- FCC RULES, CRF47, PART15, class B digital device
- CISPR 22
- ICES-003
- CAN/CSA-CEI/IEC CISPR 22

SAFETY (REGULATORY STANDARDS)

- UL 60950-1 CAN/CSA-C22.2 No. 60950-1-03
- Safety: EN 60950 - 1

ENVIRONMENTAL CONDITIONS

- Operating temperature: 10 - 40º C (50 - 104º F)
- Storage temperature: -30º - 70º C (-22º - 158º F)
- Relative humidity: between 20% and 80% (non-condensing)
- Compliance with the requirements of EU directive 2015/863/EU (ROHS) and 2012/19/EU (WEEE)

ELECTRICAL REQUIREMENTS

- Power adapter characteristics: DE 18.1 VDC/3.16 A
- The supplied power for AC adaptor power supply must be 110–240 VAC nominal, 50/60 Hz.

PHYSICAL CHARACTERISTICS

- Size: 177 x 194 x 328 mm (7 x 8 x 13 in.)
- Weight: 1.16 kg (2.56 lb) excl. power supply
- Wall-mountable, indoor

INTEROPERABILITY

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

Spectralink DECT Server 8000

ANALOG LINE SUPPORT

- CLIP FSK Bellcore
- DTMF CLIP
- Loop break
- DTMF transmit
- Dial and busy tone detect

PROTOCOL SUPPORT

- Session Initiated Protocol (SIP)
- Broadcast Messaging
- Message Service Functions (MSF)
- Event Message Description (EMD)
- Telocator Alphanumeric Protocol 1.8 (TAP)
- XML-RPC

SIP VOIP SUPPORT

- Basic call
- CLIP
- Call Hold
- Call Transfer

- Call Waiting
- Music on Hold (MOH)

OPERATION AND MAINTENANCE

- Web GUI for administration and maintenance of the entire infrastructure
- HTTP with digest authentication

SYSTEM ARCHITECTURE

- Stable system core based on Linux
- Faster access to standard protocols
- CPU card without link option has built-in Media Resource for 8 Channels
- Max. no. of:
  - Registered Spectralink DECT Handsets: 4095
  - Simultaneous calls: 1,024
  - Simultaneous calls per media resource (G.711 & G. 726): 32
  - Spectralink Digital DECT Base Stations: 512
  - Spectralink DECT Repeaters: 3 per base station
  - Spectralink IP-DECT Base Station option: 1024 (each active call takes up two channels on the media resource card)
  - Linked servers: 8
  - Interface card in one linked system: 64
- Interface Cards:
  - AB08/16 interface card: 8/16 analog telephone lines

- BIF08 interface card: drives up to eight base stations
- MR32 interface card: media resource card for 32 VoIP connections

SUPPORTED CODECS

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

NETWORK

- 10/100 Mbps Ethernet port
- Manual or dynamic host configuration protocol (DHCP)
- Time and date synchronization
- Event logging

PROVISIONING

- Configuration
- User data
- Server firmware
- Base station firmware (License required)
- Handset firmware (License required)

APPROVALS (REGULATORY STANDARDS)

- EN 55022, Class A
- EN 55024: A, A2
- FCC RULES, CRF47, PART15, class B digital device

- CISPR 22
- ICES-003
- CAN/CSA-CEI/IEC CISPR 22

SAFETY (REGULATORY STANDARDS)

- UL 60950-1 CAN/CSA-C22.2 No. 60950-1-03
- UL File No: E170690
- IEC 60950-1
- Safety: EN 60950 - 1
- AS/NZS 60950-1

ENVIRONMENTAL CONDITIONS

- Operating temperature: 32º - 104º F (0 - 40º C)
- Storage temperature: -22º - 158º F (-30º - 70º C)
- Relative humidity: between 20% and 80% (non-condensing)
- Operating altitude: Up to 9,483 ft. (3,000 m.)
- Compliance with the requirements of EU directive 2015/863/EU (ROHS) and 2012/19/EU (WEEE)

ELECTRICAL REQUIREMENTS

- Power adapter characteristics: De 19 VDC /9.48 A
- The supplied power for AC adaptor power supply must be 110–240 VAC nominal, 50/60 Hz.

PHYSICAL CHARACTERISTICS

- Size: 177 x 422 x 328 mm (7 x 17 x 13 in.)
- Weight: 5.34 kg (11.8 lb) excl. power supply

- Up to 26.5 lb (12 kg) incl. adapters
- The shelf is four units high in rack

INTEROPERABILITY

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

Spectralink Digital DECT Base Station

SERVER CONNECTION

- LED status indication
- 2 or 4 wire connection to Spectralink DECT Server for max. 4 or 8 simultaneous calls.

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 (EMC) APPROVALS (REGULATORY STANDARDS)

- EMC: EN 301 489 - 1
- EMC: EN 301 489 - 6
- FCC RULES, FCC PART15, SubpartD; RSS-213
- IC Rules RSS213 Issue 2

SAFETY (REGULATORY STANDARDS)

- UL 60950-1 CAN/CSA-C22.2 No. 60950-1-03
- Safety: EN 60950 - 1

DECT RADIO APPROVAL

- EN 301 406

ELECTRICAL REQUIREMENTS

- Phantom powered from DECT Server ower the twisted pair.
- Typical power consumption: 1 W per unit
- External antenna connection (Only Spectralink External Antenna can be used)

ENVIRONMENTAL CONDITIONS

- Operating temperature: 10 - 40º C (50 - 104º F)
- Storage temperature: -50 - 70º C (-58 - 158º F)
- Relative humidity: between 20% and 80% (non-condensing)
- Compliance with the requirements of EU directive 2015/863/EU (ROHS) and 2012/19/EU (WEEE)

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
- Can be mounted upside down

Note:

The Spectralink Digital DECT Base Station is regulatory-certified for frequency bands used in North America, Europe, Australia and New Zealand.

Spectralink IP-DECT Base Station

SYSTEM ARCHITECTURE

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

NETWORK

- 10/100 Mbps Ethernet port
- Manual or dynamic host configuration protocol (DHCP)
- Time and date synchronization from the Spectralink DECT Server
- Event logging
- LED status indication

PROVISIONING

- Base station firmware (License required on server)

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 (EMC) APPROVALS (REGULATORY STANDARDS)

- EMC: EN 301 489 - 1
- EMC: EN 301 489 - 6
- FCC RULES, FCC PART15, SubpartD; RSS-213
- IC Rules RSS213 Issue 2

SAFETY (REGULATORY STANDARDS)

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

DECT RADIO APPROVAL

- EN 301 406

ELECTRICAL REQUIREMENTS

- Power over Ethernet (IEEE 802.3af)
- PoE Class 1 device
- Typical power consumption: 2 W per unit
- External power supply option available
- External antenna connection (Only Spectralink External Antenna can be used)

ENVIRONMENTAL CONDITIONS

- Operating temperature: 10 - 40º C (50 - 104º F)
- Storage temperature: -50 - 70º C (-58 - 158º F)
- Relative humidity: between 20% and 80% (non-condensing)
- Compliance with the requirements of EU directive 2015/863/EU (ROHS) and 2012/19/EU (WEEE)

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
- Can be mounted upside down

Note:

The Spectralink IP-DECT Base Station is regulatory-certified for frequency bands used in North America, Europe, Australia and New Zealand.

Spectralink DECT Repeater

SYSTEM CAPACITY WITHOUT EXTERNAL ANTENNA

- Max. number of traffic channels: two or four

SYSTEM CAPACITY WITH EXTERNAL ANTENNA

- Max. number of traffic channels: two or four
- Distance from base station to repeater with external antenna: up to 1,950 m. (6398 ft.)

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)

DECT RADIO APPROVAL

- EN 301 406
- FCC RULES PART 15 / Subpart D, RSS-213

ELECTRO MAGNETIC COMPATIBILITY (EMC) APPROVALS (REGULATORY STANDARDS)

- EMC: EN 301 489 - 1
- EMC: EN 301 489 - 6

SAFETY (REGULATORY STANDARDS)

- UL 60950-1 CAN/CSA-C22.2 No. 60950-1-03
- Safety: EN 60950 - 1

ELECTRICAL REQUIREMENTS

- Maximum power consumption: 1.62W (Max. 2W)
- The power supply is 9VDC, 180mA.

ENVIRONMENTAL CONDITIONS

- Operating temperature: 0 - 55º C (32 - 131º F)
- Storage temperature: -50 - 70º C (-58 - 158º F)
- Relative humidity: between 20% and 80% (non-condensing)
- Compliance with the requirements of EU directive 2015/863/EU (ROHS) and 2012/19/EU (WEEE)

PHYSICAL CHARACTERISTICS

- Size: 100 x 100 x 43 mm (3.94 x 3.94 x 1.69 in.)
- Weight: 112.9 gr. (4 oz.)
- Grey-white (NCS 0502-Y)
- Wall-mountable, indoor

Spectralink External Antenna

ELECTRICAL PROPERTIES

- Frequency range: 1880-1930 MHz
- Impedance: 50 Ω (DC-path to ground)
- Polarization: RHCP
- Gain: 7.5 - 8.0 dB
- 3 dB beamwidth horizontal: > 62°
- 3 dB beamwidth vertical: > 62°
- Front to back ratio: > 8 dB
- Return loss: < 15 dB
- Connector: SMB male
- One meter cable included

ENVIRONMENTAL CONDITIONS

- Operating temperature: -20° - 55° C (-4° - 131° F)
- Storage temperature: -40° - 85° C (-40° - 185° F)

PHYSICAL CHARACTERISTICS

- Size: 100 x 100 x 42 mm (4 x 4 x 1.7 in.)
- Weight: 120 gr. (4.2 oz.)
- Only for indoor usage