

# Spectralink 84-Series Handsets

### **Product Specifications**

The Spectralink 84-Series handsets deliver on a fundamental need for enterprise-grade on-site voice mobility. Characterized by market-leading HD voice quality, durability, broad telephony and WLAN interoperability, the Spectralink 84-Series handsets deliver a reliable user experience and predictable return on investment. And with Spectralink VQO built into every 84-Series device, you get an engineered system that delivers superior voice quality. Spectralink VQO links seamlessly to access points using a proprietary, adaptive, algorithm. And only advanced, guided implementation by the Spectralink experts can ensure crystal-clear communication. It's our Performance Promise.

The Spectralink 84-Series enhances the customer value proposition through an optional integrated barcode scanner and an enhanced standards-based applications interface. In partnership with the Spectralink applications development ecosystem, the Spectralink 84-Series products enable new opportunities for end-user productivity solutions.

# Spectralink 8440 Ad State of the State of t







#### PHYSICAL CHARACTERISTICS

#### **Durability and Performance**

#### **DISPLAY**

- 2.2 in. (55.9 mm)
- 240 x 320 resolution
- · 65,000 color palette

#### **BUTTONS**

- Four (4) context-sensitive softkey buttons
- Push-to-Talk
- Five-way navigation and select control
- Home & Back navigation keys
- Up/Down volume control
- Barcode reader (8452/8453 handsets)
- · Start and End Keys
- · Panic/Duress

#### STATUS LED

- · Message (voicemail) waiting
- Out of coverage
- · Phone ringing

#### PERIPHERAL INTERFACES

- · Micro USB interface for wall charging and configuration
- · 2.5mm connector for wired headset
- Bluetooth

#### **BATTERIES**

- Two easy-access cosmetic battery capacity options
- Standard Up to 8 hrs talk time, 80hrs standby time
- Enhanced Up to 12 hrs talk time, 120hrs standby time

May vary based on scanner, applications usage, screen brightness settings, etc.

#### PHYSICAL CHARACTERISTICS

#### **DURABILITY**

- Drop/shock: MIL STD 810F, method 516.5 procedure IV
- Ingress protection standard: IP 64 per IEC 60529
- · Rubberized molding
- · Magnesium LCD mounting

#### **ENVIRONMENTAL**

- Operational temperature: 32 - 104° F (0 - 40° C)

• Storage temperature: -22 -140° F (-30 - 60° C)

#### **DIMENSIONS & WEIGHT**

|            | SPECTRALINK                               | SPECTRALINK                               |  |
|------------|---|---|--|
|            | 8440/8441                                 | 8452/8453                                 |  |
| Dimensions | 5.8 x 2.1 x 1.0 in.<br>(147 x 53 x 25 mm) | 5.7 x 2.1 x 1.3 in.<br>(146 x 54 x 34 mm) |  |
| Weight     | 5.1 oz (144.6 gr.)                        | 5.7 oz (161.6 gr.)                        |  |

As measured with standard battery.

#### FRONT VIEW - ALL MODELS



#### WIRELESS NETWORKING

#### Wi-Fi

| BAND     | FREQUENCY   | DATA RATES                           |  |
|----------|---|--------------------------------------|--|
| 802.11a  | 5.15 - 5.25 GHz<br>5.25 - 5.35 GHz<br>5.47 - 5.725 GHz<br>5.725 - 5.825 GHz | 6, 9, 12, 18, 24, 36,<br>48, 54 Mbps |  |
| 802.11b  | 2.4 - 2.4835 GHz  | 1, 2, 5.5, 11 Mbps                   |  |
| 802.11g  | 2.4 - 2.4835 GHz  | 6, 9, 12, 18, 24, 36,<br>48, 54 Mbps |  |
| 802.11n* | 2.4 & 5 GHz   | 21.7, 43.3, 65, 72.2<br>Mbps         |  |

2.4GHz and 5GHz dynamic band roaming supported

#### Bluetooth Headset Support

- · Version 2.1, HSP Version 1.2
- Class 1 support with range of ~10 meters

<sup>\*</sup>Single-stream, 20MHz channel with SGI

#### TELEPHONY FEATURES

## Rich call server feature integration and native Push-to-Talk

#### **CALL HANDLING FEATURES\***

- Up to six (6) telephone line appearances
- · Call Hold/Resume function
- Last Call Return
- · Music on Hold
- · Consultation Hold
- · Call Transfer (Attended, Unattended)
- · Overlap dialing
- Bridged Line Appearance (BLA)
- · Three-Way Conferencing (local)
- · Find-Me call forking
- · Call Screening (Incoming, Outgoing)
- · Automatic Answer
- · Call Park & Retrieve
- Group Call Pickup
- · Call Waiting
- · Multiple Calls per Line
- · Do Not Disturb
- Calling party ID (Name and Number)
- · Called party ID (Name and Number)
- Connected party ID (Name and Number)
- Call Forward (Busy, No Answer, Unconditional)
- · Call Reject

#### **CODECS**

• G.711 (a-law, u-law), G.729, G.722, G.722.1

#### **PUSH-TO-TALK (PTT)/PAGING**

- · On-board native 'walkie-talkie' capability
- · One-to-one, one-to-many broadcast communication
- · 24 configurable channels
- · Priority, default channel

#### **ADDITIONAL TELEPHONY FEATURES**

- RTCP (RFC 3550, RFC 1889)
- · Call server redundancy
- · Predictive dialing from contacts list
- Recent call lists

#### **USABILITY**

#### Intuitive and user-friendly

#### **USER PROFILES**

· Downloadable to any handset with ID and Login

#### **PERSONAL SAFETY**

- · Duress/Panic button
- · No motion, running, tilt detection
- · Alarm notifications

|              | SPECTRALINK 8440 | SPECTRALINK 8441 | SPECTRALINK 8452 | SPECTRALINK 8453 |
|--------------|------------------|------------------|------------------|------------------|
| Duress       | X                | X                | X                | X                |
| Running      |                  | X                |                  | X                |
| No<br>Motion |                  | Х                |                  | X                |
| Tilt         |                  | X                |                  | X                |

#### **ADDITIONAL**

- · Intuitive Graphical User Interface
- Selectable wallpaper/background
- · Adjustable display brightness
- · Backlit keypad with adjustable timeout period
- · Ten (10) selectable ring tones
- Ten (10) selectable alert tones
- · Multiple vibrate cadence options
- · Vibrate-to-ring options
- · Audible and vibrate notification options
- Speed dial menu list
- · Contacts directory with support for 1000 local entries
- Call logs Minimum of 20 logged entries for each call type (Incoming, dialed, and missed)
- · Emergency system-wide speed dial
- · Auto-answer & any key answer capability
- · Selectable ring tones
- · Unicode UTF-8 Multilingual User Interface

<sup>\*</sup>Summary only - actual feature support will vary among call platforms

#### **MANAGEMENT**

# Ease of provisioning, performance and fault management

#### **PROVISIONING**

- Server based central provisioning via FTP, FTPS, TFTP, HTTP or HTTPS
- · Centralized user administration
- · Provisioning and call server redundancy
- · Initial configuration via USB
- Unicode UTF-8 Multilingual User Interface

#### PERFORMANCE AND FAULT MANAGEMENT

- · On-board site survey and diagnostics tools
- · Enhanced syslog reporting
- · Roaming and handoff reporting
- · Event logging
- · Hardware diagnostics
- · Status and status reporting
- PING support (initiate and response)
- Traceroute

#### **CONFIGURATION MANAGEMENT**

- · User and administrator login and privileges
- PC-connected (USB) and remote over-the-air configuration management

#### **APPLICATIONS TOOLS**

#### Feature rich data applications interface options

#### XML APPLICATIONS PROGRAM INTERFACE

- Standards-based XHTML API
- On-board WebKit-based browser (JavaScript, CSS, DOM) for rich applications integration
- · Corporate directory access LDAP

#### SPECTRALINK OPEN APPLICATION INTERFACE (OAI)

· Backward compatibility with Spectralink OAI applications

#### **INSTANT MESSAGING**

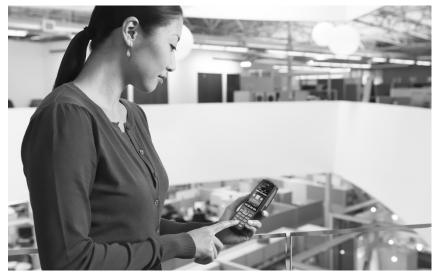
 Handset-to-handset, PC client-to-handset IM support via Microsoft® OCS and/or Microsoft Lync

#### **REAL TIME LOCATION SERVICES (RTLS)**

- · Embedded RTLS beacon (Ekahau) for location tracking
- AeroScout

#### **CALENDAR - EXCHANGE SERVER INTEGRATION**

- · Day and month view
- · Meeting reminders





#### **PERFORMANCE**

#### Industry leading voice and call quality

#### **AUDIO QUALITY**

- · TIA 810B, TIA 920 audio quality standards
- Full-duplex audio (compliant with IEEE 1329 full duplex standards)
- Voice activity detection (VAD)
- · Comfort noise fill
- · Adaptive jitter buffer & packet loss concealment
- Acoustic echo cancellation & background noise suppression

#### **QUALITY OF SERVICE (QOS)**

- · Wi-Fi Multimedia (WMM)
- · WMM-Power Save
- · WMM-Admission Control (draft)
- IEEE 802.1p/Q tagging (VLAN)/DSCP tagging

#### **SECURITY**

- WEP, WPA-Personal, WPA2-Personal, WPA2-Enterprise with 802.1X (EAP-FAST, PEAP-MSCHAPv2) with Opportunistic Key Caching (OKC) and Cisco Client Key Management (CCKM)
- · Media encryption via Secure Real-Time Protocol (SRTP)
- SIP signaling encryption via Transport Layer Security (TLS)
- · Server-based configuration file encryption (AES 128 bit)
- · HTTPS secure provisioning
- · Support for signed software executables

#### **NETWORKING**

#### Strong support for networking standards

- Address assignment via Manual or Dynamic host configuration protocol (DHCP)
- Domain name resolution via Domain Name Service (DNS)
- Time and date synchronization using Simple Network Time Protocol (SNTP)
- Lightweight Directory Access Protocol (LDAP) for directory lookup and download
- IEEE 802.1p/Q tagging (VLAN)/DSCP tagging

#### DATA CAPTURE SPECIFICATIONS

#### High-performance scanning

| FEATURE              | SPECTRALINK 8452/8453                  |  |
|----------------------|--|--|
| Туре                 | 1D/2D Area Imagers                     |  |
| Light Source         | 617 nm Highly Visible LED (5)          |  |
| Scan Angle           | 38.9° Horiz., 25.4° Vert.              |  |
| Label print contrast | Down to 25%                            |  |
| Resolution           | Optical Resolution<br>752 x 480 pixels |  |
| Reading distance     | Up to 34 in. (864 mm)                  |  |

#### **BARCODE SYMBOLOGIES**

- 1D: RSS, Stacked RSS, RSS-14, GS1-DataBar, Code 39, Code 93, Code 128, UPC (E&A)
- 2D: Aztec, Codabar, Code 11, Code 39, Code 93/93I, Code 128, GS1-128, ISBT8, Databar (RSS), Datamatrix, EAN13, EAN8, Interleaved 2 of 5, Micro PDF 417, MSI, PDF 417, Plessey, QC code, Telepen, UPCA, UPCE, UPC/EAN

#### **ACCESSORIES**

# Accessories that deliver mobile communication solutions to the Enterprise

#### **SPEAKERPHONE DOCK**

- Docking base provides full-duplex HD Voice speakerphone and charging
- · Ideal for small group conference settings
- · Suitable for replacement of a desktop phone
- Includes on-board mute, volume and speakerphone controls
- · Wired headset options
- · Provides handset and spare battery charging



#### **DUAL CHARGER**

- Ideal for desktop use to augment or replace a desktop phone
- · Provides handset and spare battery charging



#### **QUAD CHARGER**

- · Charges up to four spare battery packs simultaneously
- · Ideal for shift-work environments and highly-mobile users
- · Designed for tabletop or wall-mounting



#### **MULTI-CHARGER**

- · Charges up to 12 battery packs simultaneously
- Wall or desk mount
- · Ideal for multi-shift environment





#### Learn More

Learn what Spectralink wireless telephones can do for your organization. Visit us at spectralink.com or contact your Spectralink representative.

#### spectralink.com

info@spectralink.com +1 800-775-5330 North America +45 7560 2850 EMEA