Spectralink 84-Series Handsets

Product Specifications

The Spectralink 84-Series handsets deliver on a fundamental need for enterprise-grade on-site voice mobility. Characterised 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.

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.

PHYSICAL CHARACTERISTICS

Durability and Performance

DISPLAY

- 2.2 in. (55.9 mm)
- 240 x 320 resolution
- 65,000 colour 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 VI
- Ingress protection standard: IP 64 per IEC 60529
- Rubberised moulding
- Magnesium LCD mounting

ENVIRONMENTAL

- Operational temperature: 32 - 104° F (0 - 40° C)
- Storage temperature: -22 -140° F (-30 - 60° C)

DIMENSIONS & WEIGHT

	SPECTRALINK 8440/8441	SPECTRALINK 8452/8453
Dimensions	5.8 x 2.1 x 1.0 in. (147 x 53 x 25 mm)	5.7 x 2.1 x 1.3 in. (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

LED indicator

Full-color LCD display

Home key
Returns you to the *Home* screen

Start key
- Opens the Dialer from the *Home* screen
- Initiates a call from the Dialer
- Answers an incoming call

OK key
- Selects menu items
- Enables or disables menu items

Keypad
While in *Multi Key Answer Mode* you can use any of these keys to answer an incoming call instead of pressing the **Start** key or **Answer** soft key

Model number

Soft keys
Access context-sensitive features

Navigation keys
▲ and ▼ Scroll through menus and fields
◄ and ► Move cursor

Back key
Returns to the previous menu level or to the *Home* screen

End key
- Ends the call or returns to the *Home* screen
- Rejects an incoming call
- Terminates a conference call
- Powers the handset on or off when held down for about two seconds

WIRELESS NETWORKING

Wi-Fi

BAND	FREQUENCY	DATA RATES
802.11a	5.15 - 5.25 GHz 5.25 - 5.35 GHz 5.47 - 5.725 GHz 5.725 - 5.825 GHz	6, 9, 12, 18, 24, 36, 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, 48, 54 Mbps
802.11n*	2.4 & 5 GHz	21.7, 43.3, 65, 72.2 Mbps

2.4GHz and 5GHz dynamic band roaming supported

*Single-stream, 20MHz channel with SGI

Bluetooth Headset Support

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

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 dialling
- 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

Summary only – actual feature support will vary among call platforms

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 dialling 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 Motion		X		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, dialled, and missed)
- Emergency system-wide speed dial
- Auto-answer & any key answer capability
- Selectable ring tones
- Unicode UTF-8 Multilingual User Interface

MANAGEMENT

Ease of provisioning, performance and fault management

PROVISIONING

- Server based central provisioning via FTP, FTPS, TFTP, HTTP or HTTPS
- Centralised 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
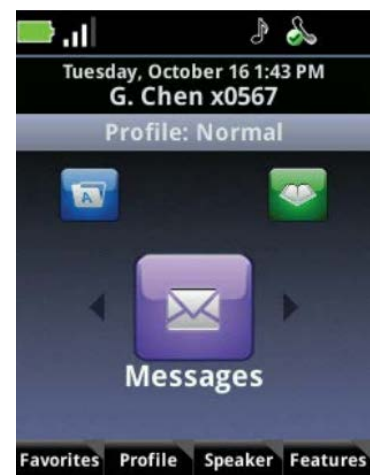
INSTANT MESSAGING

- 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 signalling 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 synchronisation 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
Type	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 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

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