84 Series

spectralink

Meet the 84 Series, Spectralink's durable, reliable, voice-centric feature phone you can count on.

Our 84 Series is a Wi-Fi feature phone that delivers on the fundamental need for enterprise-grade voice quality and a dependable user experience, no matter how tough the environment. If a mobile worker needs a single device that is exceptionally reliable and extra durable, with simple to use buttons and interfaces, then 84 Series might be the workhorse they need. Designed with the requirements of on-site workers in the healthcare, retail, and manufacturing industries in mind, the 84 Series unites the most critical elements of workplace communications within a single mobile device.

The Spectralink 84 Series handset empowers workers to deliver the absolute best care, service, and response times in any situation, optimizing efficiency and resulting in improved safety, sales, and satisfaction.

Benefits:

- **Investment Protection:** 84 Series' tough, rugged design ensures drops, damage, or harsh cleaning agents are not a problem and your device will last for years to come, protecting your investment and bottom line

- **Critical Communication Enablement:** Industry-leading voice quality outperforms the competition, eliminating any miscommunication that could be critical for patient safety or customer satisfaction

- **Simple and familiar form factor** featuring physical buttons means your solution is easy to use and your workers can communicate immediately with no need to remove gloves or unlock phones

84 Series connects all mobile workers, whether they are working in a large multi-site facilities or clean room, and delivers business crucial communication, requests, or alarms instantly. The handsets support text alerts, instant messaging, and Push-to-Talk functionality, making it easy to instantly reach colleagues and eliminating the need for two-way radios or overhead paging. And, with a wide range of personal safety features such as man down and panic button, mobile workers are safe no matter where the job takes them.

With Spectralink you get:

- Our proprietary Voice Quality Optimization™ (VQO™) technology delivers crystal clear voice quality you can count on, plus noise suppression and echo cancellation capabilities

- Access to our world-class ecosystem of application partners to ensure your workers have the tools they need to get the job done

- The best call control UC interoperability in the industry – we integrate with all leading UC platforms

Use cases:

HEALTHCARE

For long-term care, aged care, and assisted living facilities to help ensure staff provides the best care for residents and long-term care patients. Hospitals looking to implement basic alerting, notifications, and Nurse Call.

MANUFACTURING

Designed for harsh work environments, operations and engineering staff will benefit from the built-in active noise reduction, safety features for lone workers, cleanability, rugged design, and non-glass screen.

RETAIL

Ease-of-use improves communication between store associates and retail management. Enables store associates to track and fulfill "buy online, pick up in store" (BOPIS) transactions and supports clear, reliable voice communications and safety alerting throughout the store.

Specifications

Models
- 8440
- 8441

PHYSICAL CHARACTERISTICS

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
- Start and End Keys
- Panic/Duress

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

Status LED
- Message (voicemail) waiting
- Out of coverage
- Phone ringing

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

Dimensions & weight
- 5.8 x 2.1 x 1.0 in. (147 x 53 x 25 mm)
- Weight 5.1 oz (144.6 gr.)

Peripheral interfaces
- Micro USB interface
- 2.5mm connector
- Bluetooth

Environmental
- Operating temperature: 32° - 104° F (0 - 40° C)
- Storage temperature: -22° - 140° F (-30° - 60° C) QOS
- Wi-Fi standard QoS; including WMM, WMM Power Save, and WMM Admission Control
- IEEE 802.1p/Q tagging (VLAN)/DSCP tagging

WIRELESS NETWORKING

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

Radio frequencies
- 2.4 - 2.4835 GHz (802.11b, 802.11g)
- 5.15 - 5.825 GHz (802.11a varies by country)
- 2.4 and 5 GHz (802.11n)

Transmit data rates
- Up to 11 Mbps (802.11b), up to 54 Mbps (802.11a/g), up to 72.2 Mbps (802.11n)

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

TELEPHONY FEATURES

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 (PPT)/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

Personal safety
- Duress/Panic button
- No motion, running, tilt detection (8441 only)
- Alarm notifications

User profiles
- Downloadable to any handset with ID and Login

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

Specifications

MANAGEMENT

Provisioning
- Server based central provisioning via FTP, FTPS, TFTP, HTTP or HTTPS
- Centralized user administration
- Provisioning and call server redundancy
- USB and over-the-air configuration
- 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

APPLICATION TOOLS

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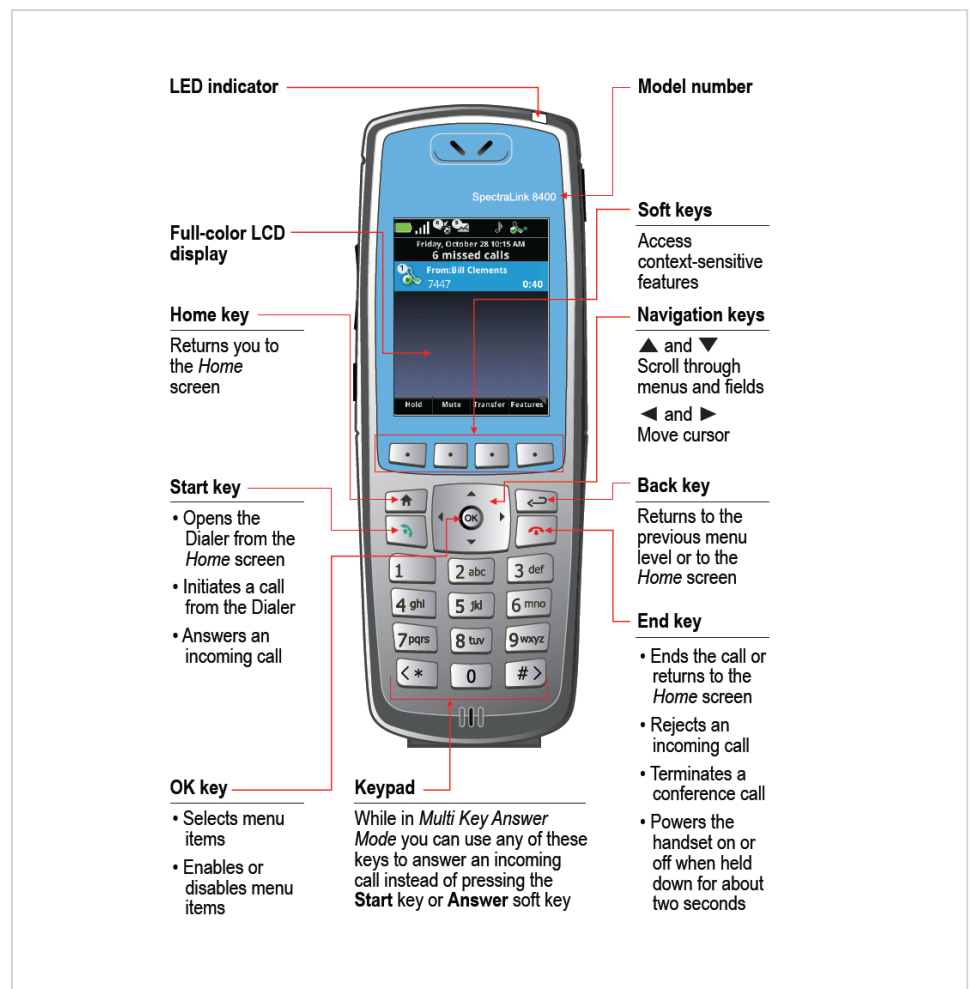- Embedded RTLS beacon (Ekahau) for location tracking
- AeroScout

Calendar - Exchange server integration
- Day and month view
- Meeting reminders

PERFORMANCE

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-TLS, 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

- 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

84 Series Chargers and Accessories

Complete your communication solution with 84 Series chargers and accessories. Spectralink offers versatile charging options including multi-battery chargers and dual charger. Standard charge time is 3.5 hours to 100%. Back up battery, case, and clip options extend convenience on the move. Chargers and accessories are compatible with 8440 and 8441 devices.

84 Series Quad Charger

The Quad Charger charges four separate spare battery packs simultaneously. There is a single LED for each slot. Table top or wall mount options. The Quad Charger allows users to save time and improve productivity in maintaining a supply of charged battery packs in multi-shift environments. Power supply sold separately.

SKU# 1310-37224-701
SKU# EQD87200 (Universal power supply)

84 Series Dual Charger

The Dual charger charges a handset and battery and spare battery pack. There is a single LED for each slot. The handset slot charges first followed by the battery pack slot. The handset will display charging information on the LCD in standby state. Power supply sold separately.

SKU# 1310-37222-701
SKU# 2200-37240-001 (Universal power supply)

84 Series Multi-Charger

The Spectralink 84 Series 12-Bay Multi-Charger is an assembly of three Spectralink 84 Series Quad Chargers on a rack that can be mounted on the wall or on a desk. The unit charges up to 12 batteries simultaneously (batteries not included).

SKU# 2200-37287-711 (NA)
SKU# 2200-37287-714 (UK)
SKU# 2200-37287-712 (EMEA)
SKU# 2200-37287-713 (AU/NZ)

84 Series Battery Packs

There are two easy-access cosmetic battery capacity options: Standard – for up to 8 hours talk time, 80 hours standby time. Extended – for up to 12 hours talk time, 120 hours standby time.

SKU#1520-37214-001 (Std)
SKU#1520-37215-001 (Ext)

Vinyl or Silicone Carrying Cases

The carrying case fits snugly around the handset providing added protection. Available in clear or black.

SKU# ACA84302 (Clear)
SKU# ACA84301 (Black)

Swivel Clips

Attach your device to your side for convenience on the go. The swivel clip is screw mounted to the device for extra durability.

SKU# WTO205

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.

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