TOSHIBA
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IP*edge*™ and Strata® CIX™
Product Bulletin

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Introducing the Polycom
SpectraLink 8400 Series Telephones!

Toshiba is now offering the Polycom® SpectraLink® 8400 VoWLAN series handsets. These telephones deliver on a fundamental need for enterprise-grade on-site voice mobility. Characterized by market-leading Polycom HD Voice™ quality, durability, and broad telephony and WLAN interoperability, SpectraLink 8400 handsets deliver a reliable user experience. The SpectraLink 8400 series (shown below) enhances the customer value proposition through an optional integrated barcode scanner and an enhanced standards-based applications interface. In partnership with the Polycom applications development ecosystem, the SpectraLink 8400 product toolset enables new opportunities for end-user productivity solutions.

The Polycom SpectraLink 8400 series enables mobile professionals to be reached immediately and reliably throughout your workplace.

The Polycom SpectraLink 8400 series includes the following advantages:

- The SpectraLink 8400 handset provides exactly the right communication tools for mobile professionals in the workplace—all in one lightweight, simple-to-use, ergonomic device.

SpectraLink 8440   **SpectraLink 8450**

- This is a business telephone tied directly into the enterprise telephony system and related applications, such as corporate voice mail, voice-activated dialing, and directories. Like a "desk phone in the hand," the SpectraLink 8400 handset's high definition voice quality powers clear conversations.

- These handsets support text alerts and instant messaging.

- Fully-integrated push-to-talk functionality makes it easy to instantly reach specialized teams within your organization, and eliminates the need for separate two-way radios.

- With its user-friendly Web browser and application integration, the SpectraLink 8400 series provides fast, easy access to Web-based applications, reference tools, and procedure documents.

SpectraLink 8440 and 8450 Rear

- The SpectraLink 8450 handsets with built-in barcode readers are extremely powerful information portals to important resources and business critical databases. Patent-pending Polycom® Quick Barcode Connector™ software enables workers to quickly associate their SpectraLink 8450 handset with a PC for application integration and automated data capture.

Physical Characteristics

Display

- 2.2-inch 240 x 320 resolution
- 65,000 color palette

Buttons

- Four (4) context-sensitive softkey buttons
- Dedicated Push-to-Talk
- Five-way navigation and select control
- Home & back navigation keys
- Up/Down volume control
- Barcode reader (8450 handset)
- Start and End Keys

Status LED

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

Peripheral Interfaces

- Micro USB interface for wall charging and configuration
- 2.5mm TRS 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

Durability

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

Environmental

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

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

Dimensions and Weight

	SpectraLink 8440	**SpectraLink 8450**
Dimensions	147mm by 53mm by25mm	147mm by 53mm by 28mm
Weight	5.6 oz	6.2 oz

System Requirements

IPedge

IPedge IGS version 1.1.11-1.

CIX

- CIX40, CIX100, CIX200, CIX670, or CIX1200 running Release AR520MT055 or later

- MIPU/GIPU-8 Release: MIPU01_28 (08-03-2009) or later

- LIPU/GIPH/BIPU not supported

- Strata CIX40, CIX100, CIX200, and CIX670 systems running R4 and later software can be upgraded to Release 5.2 software. Systems running R3 software must be updated to R4 processors then updated to R5.2 software.

- Network eManager Release 5.20B21 or later

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

Wireless Networking

Please visit the Toshiba Internet FYI site > 3rd Party> Polycom > Polycom VIEW Certified Products Guide for an updated list of wireless access points and controllers.

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[1]	2.4 & 5 GHz	21.7, 43.3, 65, 72.2 Mbps

[1] Single-stream, 20MHz channel with SGI

Bluetooth

- Version 2.1, HSP Version 1.2

- Class 1 support with range of ~10 meters

Features

Feature	Supported	Not Supported
Up to 6 telephone line appearances	X	
Last Call Return	X	
Call Hold/Resume	X	
Consultation Hold	X	
Music on Hold	X	
Call Transfer (Attended and Unattended)	X	
Overlap dialing	X	
Bridged Line Appearance (BLA)	X	
Three-Way Conferencing (local)	X	
Find-Me call forking	X	
Call Screening (Incoming, outgoing)	X	
Automatic Answer	X	
Call Park & Retrieve	X	
Group Call Pickup	X	
Call Waiting	X	
Multiple Calls per Line	X	
Do Not Disturb	X	
Calling party ID (name and number)	X	
Called party ID (name and number)	X	
Connected party ID (name and number)	X	
Call Forward (Busy, No answer, Unconditional)	X	
Call Reject	X	
RTCP (RFC3550, 1889)	X	
Call server redundancy	X	
Predictive dialing from contacts list	X	
Recent call lists	X	

Codecs

- G.711, G.729

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

Order Information

Part Number	Description
2200-37025-001	SpectraLink 8440 North American Handset Bundle, Blue. Includes 1x SpectraLink 8440, Blue (2200-37149-001), 1x standard battery (1520-37214-001), and 1x USB charger (2200-37275-001).
2200-37026-001	SpectraLink 8440 North American Handset Bundle, Black. Includes 1x SpectraLink 8440, Blue (2200-37149-001), 1x standard battery (1520-37214-001), and 1x USB charger (2200-37275-001).
2200-37027-001	SpectraLink 8450 North American Handset Bundle, Blue. Includes 1x SpectraLink 8450, Blue (2200-37152-001), 1x standard battery (1520-37214-001), and 1x USB charger (2200-37275-001).
2200-37028-001	SpectraLink 8450 North American Handset Bundle, Black. Includes 1x SpectraLink 8450, Black (2200-37152-001), 1x standard battery (1520-37214-001), and 1x USB charger (2200-37275-001).
2200-37036-001	SpectraLink 8400 Quad Charger Kit. Includes 1x 8400 Series Quad Charger (1310-37224-00), and 1x universal power supply (2200-37241-001).
2200-37036-701	SpectraLink 8400 Quad Charger Kit. Includes 1x 8400 Series Quad Charger (1310-37224-701), and 1x universal power supply (2200-37241-001).
2200-37050-001	SLNK 8440 NA Handset, Blue, Quad Charger Bundle. Includes 4x SpectraLink 8440 Blue,(2200-37149-001), 8x std batteries (1520-37214-0010), 1x 8400 Quad Charger (1310-37224-00), and 1x PWR supply (2200-37277-001).
2200-37051-001	SLNK 8440 NA Handset, Black, Quad Charger Bundle. Includes 4x SpectraLink 8440 Blue,(2200-37149-001), 8x std batteries (1520-37214-0010), 1x 8400 Quad Charger (1310-37224-00), and 1x PWR supply (2200-37277-001).
2200-37052-001	SLNK 8450 NA Handset, Blue Quad Charger Bundle. Includes 4x SpectraLink 8450 Blue,(2200-37152-001), 8x std batteries (1520-37214-0010), 1x 8400 Series Quad Charger (1310-37224-00), and 1x PWR supply (2200-37277-001).
2200-37053-001	SLNK 8450 NA Handset, Black Quad Charger Bundle. Includes 4x SpectraLink 8450 Blue,(2200-37152-001), 8x std batteries (1520-37214-0010), 1x 8400 Series Quad Charger (1310-37224-00), and 1x PWR supply (2200-37277-001).
1310-37222-001	SpectraLink 8400 Series Dual Charger. Order power supply (2200-37240-001) separately.
1310-37224-001	SpectraLink 8400 Series Quad Charger. Order power supply (2200-37241-001) separately.
1520-37214-001	SpectraLink 8400 Series Battery, Standard
1520-37215-001	SpectraLink 8400 Series Battery, Extended
2200-30720-001	SpectraLink 8410 Speakerphone Dock Order power supply 2200-37241-001 separately.

Support

As set forth in Toshiba's warranty regarding 3rd party products, Toshiba will provide warranty support for the period of warranty. As set forth in Toshiba's Product Lifecycle Policy for 3rd party products, technical support is available throughout a product's lifecycle and for no more than 12 months after the product reaches the end of its manufacture discontinuance.

Warranty

The Polycom 8400 Series is a third-party manufactured product and carries its own warranty for a period of 12 months from the date of purchase that is independent of the Toshiba manufacturer limited warranty provided with our Toshiba-branded products. Dealers should check Toshiba's FYI site for complete warranty information.

Note All Claims and Return Authorizations (RA) must be processed by the End User or Dealer representative directly with Polycom. Toshiba will no longer process the RAs for Polycom, SpectraLink, or 8400 series products.

Polycom Certification Program

Polycom requires that all Dealers (Resellers) be Certified by Polycom via Sales and Technical Training before a Dealer can promote, quote, sell, or support Polycom products. Furthermore, training must be completed in order for the Dealer to receive Technical Support directly from Polycom (see below). This training is provided via online modules that are required to be renewed every two (2) years in order to maintain Certification status. Training descriptions and links are as follows.

To get certified, the dealer must first sign up for a log in to the Polycom Resource Center at http://portal.polycom.com. Once access is granted, they can then apply for product certification.

Once logged in, select the "More Info" link under the Channel Certification section. In this section, you can find detailed requirements for the various product certifications. To get to the application select the "Application and Tools" link in the left side navigation bar (Note: be sure to hold down your CTRL key even if you have pop up blockers disabled). A new window will open where you can then select the "Apply" link. Fill out the form and submit.

Once approved, the dealer will receive an email with next steps on training at Polycom University. Please note that the dealer will not be able to get into Polycom University until their certification application has been approved.

The following modules can be searched for by course number in Polycom University by clicking on Course Catalog, then Catalog, and then entering the course number in the search box. Polycom University is a separate log in and access will not be granted until the certification application has been approved.

Sales Training

Sales Training Module for Wireless Certification is 3549

Sales Training Module for VoIP Certification is 1538

Technical Training

Technical Training Module for Wireless Certification is 7778

Technical Training Module for VoIP Certification is 1539

Technical Support

Toshiba Dealers are requested to provide Tier 1 basic troubleshooting for its customers. Toshiba will provide Tier 1 to Tier 3 support for its Dealers as required. For Polycom 8400 Series related issues, Dealers are requested to contact Polycom directly for Tier 2 immediate troubleshooting and Tier 3 advanced troubleshooting and trace analysis support.

Polycom offers advanced support services options for the Spectralink 8440/8450. For more information on the different support options, please visit the Toshiba Internet FYI site > 3rd Party > Polycom > Spectralink Wireless Support Services Datasheet.

Warranty to Priority Service Upgrade for 8440/8450 handset	4870-00982-821
Advanced Warranty Upgrade for 8440/8450 handset	4870-00982-822
Advanced Plus Warranty Upgrade for 8440/8450 handset	4870-00982-823

Polycom Technical Support

(800) 775-5330

Interoperability Support

Toshiba recommends that only those Polycom 8400 Series products distributed by Toshiba be operated with the Strata CIX systems. Toshiba distributed handsets have been approved for operation with current versions of the Strata CIX systems and fully tested to provide Toshiba's call quality and capability.

Documentation

The following related documentation is available from the Toshiba FYI site:

- Polycom 8440 Configuration and Setup

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