

SCH305.v2

WIRELESS DECT7 PORTABLE COMHUB

The Sonetics Wireless ComHub is the heart of a Sonetics Portable Wireless Communication System. ComHubs support full duplex, conference call-like digital communication with up to five Sonetics APEX Wireless Headsets. Radio PTT-capable headsets can be configured to transmit on a portable radio via the ComHub.

For situations that require a large number of connected users, such as education or tour groups, Broadcast Mode supports up to 100 users. Tethering your SCH305-BT with a second ComHub (SCH305 or SCH310T) lets you connect two teams in a single talk group.

The DECT channel allows users to talk on up to five different channels. DECT7 wireless operates on the 1.9GHz band to provide secure, interference-free communication. With internal and external antennas, the ComHub Base Station configures itself for the best reception and a line-of-sight range of up to 1,600 feet.



DECT7® WIRELESS COMMUNICATIONS¹

Clear, wireless communication for 2 to 20 users with up to 1600-foot (line of sight) range in high-definition, wideband audio.



BLUETOOTH

Pair a cell phone, tablet, or laptop to the ComHub for cell phone or video calling collaboration with your team. (Available only on SCH305-BT)



BROADCAST MODE

Connect up to 100 Apex 3-Series wireless headset users in power-saving broadcast mode for training, tour groups or educational settings. Transition to talk mode temporarily with the PTT headset button.



WIDEBAND AUDIO

Wireless DECT7 communications transmit in high-definition, wideband audio for greater voice clarity and integration with voice-activated control systems. This feature is defeatable when narrowband communication is necessary.



USB PROGRAMMABLE

Use your Windows PC to configure the SON150 Wireless Base Station through its built-in USB port. Customize each feature and setting for your individual application.



MULTI-CHANNEL SYSTEM

Remote selection of up to five channels via Apex 3-Series wireless headset dome buttons.



TWO-WAY RADIO INTEGRATION

Connect any portable or mobile radio using a Sonetics Portable Radio Adapter and transmit via a connected wireless headset's radio PTT button. Configure individual headsets for radio PTT or intercom-only.



DECT7 ENCRYPTION

The SON150 uses the latest digital encryption to ensure privacy.



PROXIMITY PAIRING

For an additional layer of security, the SON150 will only pair with DECT7 units in close proximity.



VIRTUAL & CABLE TETHERING

Connect two teams together virtually by calling cell phones paired to each SCH305-BT (or by hosting video calls). Or use cable tethering with your SCH305-BT to a second SCH305-BT or SCH310T ComHub (requires included CAT5 Crossover Cable)

APEX 3-SERIES PORTABLE COMHUBS

Model	Radio Interface	Bluetooth	VoIP Functionality	Full Duplex Connections	Broadcast Connections	Battery Life
SCH305	✓			5	100	24 hrs
SCH305-BT	✓	✓	✓	5	100	24 hrs
SCH310 / 310T	✓			10	100	12 hrs



CARRY BAG

Rugged nylon carry bag, integrated shoulder strap and hanger hook.

EXTERNAL ANTENNA

Increases placement flexibility. Magnet or permanent mount.



SCH305.v2

WIRELESS DECT7 PORTABLE COMHUB

FEATURES

WIRELESS DECT7 COMMUNICATIONS

- Full-duplex team communication, just like a mobile conference call
- Connect up to five (5) Sonetics DECT6 or DECT7 wireless headsets
- Up to 1,600 line-of-sight range to the wireless base station
- Interference-free communication
- 35-bit DECT digital encryption ensures security and privacy
- 64-bit audio stream encryption

BLUETOOTH 4.0 (Available Only On SCH305-BT)

- Pair cell phones, tablets or laptops for video conference calling
- Reach the entire team for increased collaboration and productivity

TWO-WAY RADIO INTEGRATION

- Connect any portable two-way radio with a Sonetics Portable Radio Adapter
- Transmit using a Sonetics wireless headset's radio PTT button
- Configure individual headsets for radio transmit or intercom only

CABLE TETHERING

- Connect two teams of up to 20 users in a single talk group
- Tether to SCH305, SCH305-BT, or SCH310T (requires included CAT5 Crossover Cable)

MULTI-CHANNEL SYSTEM

- Select from five separate channels for multiple teams
- Remote channel selection via paired APX377 or APX379 wireless headsets

BROADCAST MODE

- Connect up to 100 wireless headsets in this listen-only, power-saving mode
- Transition momentarily to an open talk position; audio tone confirmation

WIDEBAND AUDIO

- High-definition, wideband transmission format
- Superior clarity for voice-activated control system integration
- Defeatable when narrowband communication is required

PROXIMITY PAIRING

- For additional security, SON150 only pairs with DECT7 units in close proximity

SCH305 & SCH305-BT SPECIFICATIONS

PHYSICAL

- Length: 8.2 in Width: 6.1 in Height: 3.9 in
- Weight: 2.75 lbs. (SCH305-BT 2.8 lbs.)

POWER

- Voltage Input: 5 VDC to 16 VDC
- Maximum Current Input: 1.2A @ 12V

ENVIRONMENTAL

- IP Rating: IP67
- Operating temperature -22°F (-30°C) to 140°F (60°C)
- Storage temperature -40°F (-40°C) to +185°F (+85°C)

SON150 BASE STATION SPECIFICATIONS

FCC

- FCC ID: V9N950325700V1
- FCC Part 15: All Models

INDUSTRY CANADA

- IC UPN: 7895A-950325700

SAE

- Vibration per J1455, Sec. 4.9
- Conducted Immunity per J1113-11
- Electrostatic Discharge per J1113-13
- Radiated Emissions per J1113-41
- Radiated Immunity: ISO 11452-2

MIL

- Humidity per MIL-STD 810F and 810G
- Temperature Shock per MIL-STD 810F & 810G

ISO

- Conducted Transients per 7637-2
- Quality Management System ISO 9001:2015

DECT SPECIFICATIONS

COMMON DECT SPECIFICATIONS

- Carrier Spacing: 1.724 MHz
- Time Slots: 2 x 12 (up and down stream)
- Channel Allocation: Dynamic
- Encryption: DECT Standard Cipher with 35-bit initialization vector and 64-bit audio stream encryption
- Audio Bandwidth: 300 Hz to 3.4 kHz, Narrow Band, G.726 compression
- Audio Bandwidth: 50 Hz to 7 kHz, Wide Band, G.722 compression

REGION 1 SPECIFICATIONS

- Authorized for use in: Canada, USA
- Frequency Bandwidth: 1919.808 MHz to 1930.176 MHz
- Number of Carriers: 5
- Total Time Slots: 60 in G.726 (narrow band) / 30 in G.722 (wide band)
- Average Output Power: 4mW | Maximum Output Power: 100mW
- Range (line of sight): 1,600 feet maximum

Sonetics®

Sonetics.com | 800-833-4558

17600 SW 65th Ave,
Lake Oswego, OR 97035 USA

SON-PS-0019-A