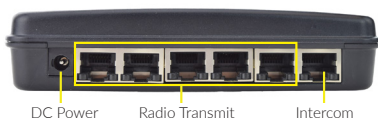


WB505R.v2

DECT7 Wireless Base Station

The Firecom Wireless Base Station is the heart of a Firecom Wireless Communication System. The WB505R.V2 Wireless DECT7 Base Station connects up to five APEX wireless headsets in full-duplex team communication up to 1,600 feet from the base station.

Remotely activate radio PTT or select from two channels with headset dome controls on a connected DECT7 wireless headset. Supports up to 80 users in broadcast mode for tour groups or training applications. Listen to guides, instructors, or prerecorded content. Transition to talk mode as needed. The WB505R.V2 is USB-programmable for custom configurations and can be powered from a vehicle or with the included wall-charger.



EXTERNAL ANTENNA

Optional antenna to increase placement flexibility. Magnet or permanent mount. (Sold Separately)

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.



BROADCAST MODE

Connect up to 80 Firecom 500-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.



DUAL ANTENNA DESIGN

Internal and external antennas provide diversity switching for best signal acquisition. Place the WB505R.V2 and an optional external antenna in different locations to increase the flexibility of custom installations.



DECT7 ENCRYPTION

The WB505R.V2 uses the latest digital encryption to ensure privacy.



PROXIMITY PAIRING

For an additional layer of security, the WB505R.V2 will only pair with DECT7 units in close proximity.



USB PROGRAMMABLE

Use your Windows PC to configure the WB505R.V2 Wireless Base Station through its built-in USB port. Customize each feature and setting for your individual application.

WB505R.v2

DECT7 Wireless Base Station

FEATURES

WIRELESS DECT7 COMMUNICATIONS

- Full-duplex team communication, just like a mobile conference call
- Connect up to five (5) Firecom 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
- Backward compatible with first generation Firecom DECT and DECT6 wireless headsets and belt packs

TWO-WAY RADIO INTEGRATION

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

TWO-CHANNEL SYSTEM

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

BROADCAST MODE

- Connect up to 80 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

DUAL-ANTENNA DESIGN

- Internal and optional external antennas
- Design provides diversity switching for best signal acquisition
- Optimize range and performance for custom installations

PROXIMITY PAIRING

- For additional security, WB505R.V2 only pairs with DECT7 units in close proximity

WB505R.V2 BASE STATION SPECIFICATIONS

PHYSICAL

Length: 5.7 in Width: 2.72 in Height: 1.2 in

Weight: 4.8 oz

POWER

Voltage Input: 5 VDC to 16 VDC

Maximum Current Input: 400 mA @ 5V, 150mA @ 12V

ENVIRONMENTAL

IP Rating: IP20

Operating temperature -40°F (-40°C) to 140°F (60°C)

Storage temperature -40°F (-40°C) to +185°F (+85°C)

FCC

FCC ID: V9N950344001v1

FCC Part 15: All Models

INDUSTRY CANADA

IC UPN: 7895A-950344001

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: MIL-STD 810F and 810G

Temperature Shock: 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



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