

# Alcatel-Lucent 8262/8262Ex DECT Handsets

The Alcatel-Lucent 8262 DECT Handset is the perfect communications companion for your mobile workforce operating in demanding environments such as construction, manufacturing or the oil and gas industry.

The 8262 DECT Handset provides unparalleled robustness through 180 g (6.34 oz) of technology packed into a ruggedized body, with a shock-proof screen that can survive falls from 2.0 m (6.6 ft). The dedicated shield and body grip make the 8262 DECT Handset usable with gloves for specific industries such as: chemistry construction or metallurgy.

The 8262 DECT Handset provides a complete set of Isolated Worker Protection services that protect lone workers from incidents and accidents at the workplace. These include: Man-down, no movement, pull cord, and emergency button.

Isolated Worker Protection is enhanced when augmented with device geo-location. The 8262 DECT Handset offers low cost and high precision. The device supports Bluetooth 4.1 Low Energy technology. Radio transmitters are disseminated throughout the work yard, and intelligence is concentrated in the centralized supervision system.

The Alcatel-Lucent 8262Ex DECT Handset offers all of the characteristics of the 8262 DECT Handset in hazardous gas and dust environments where there is risk of an explosion.

## Features

- Rugged body for harsh environments
- Bluetooth Low Energy technology for high-accuracy geo-location
- Oversized alarm button
- Ergonomic design and intuitive operation
- Keypad and color display backlight
- Bluetooth 4.1 connectivity for accessory pairing
- 8262Ex ATEX compliance classification:
  - Europe:
    - Gas: II 2G Ex ib IIC T4 Gb
    - Dust: II 2D Ex ib IIIC T135°C Db IP65

## Benefits

- Robustness ensures your employees stay connected to the rest of the organization.
- Isolated Worker Protection services provide your workforce with a consistent set of innovative features.
- Accurate device geo-location ensures worker protection.
- Compatibility with previously deployed Alcatel-Lucent DECT devices to ensure investment protection.
- HD audio and common ergonomics with the 8242 DECT Handset assure immediate adoption by the user.

**8262 DECT Handset**    **8262Ex DECT Handset**

## Technical specifications

### Physical characteristics

- 3BN67345AA 8262 DECT Handset Box contains handset, battery, belt clip and safety sheet
- Color: Black
- 3BN67360AA 8262Ex DECT Handset Box contains handset, battery, belt clip, Torx screw driver and safety sheet
- Graphic display: 2.4 in, 320 x 240 pixels, 65,000 colors
- Display backlight: White
- Keypad backlight: Blue
- Hands-free, mute
- Vibrator
- Headset: Jack 3.5 mm, TRRS compliant<sup>1</sup>
- Bluetooth 4.1
- Battery charging on micro-USB type B connector<sup>1</sup> or desktop charger

### Dimensions

- Height: 145 mm (5.71 in)
- Width: 55 mm (2.16 in)
- Depth: 23 mm (0.9 in)
- Weight: 180 g (6.34 oz)

### 8262 DECT battery pack

- Easily replaceable, 1,100-mAh lithium-ion battery
- Talk time: Up to 20 hours
- Standby time: Up to 200 hours
- Charging time: Less than 3 hours

### 8262Ex Battery pack

- 1,100-mAh lithium-ion battery screwed for security purpose
- Talk time: Up to 17 hours
- Standby time: Up to 160 hours
- Charging time: Less than 6 hours

### Radio specifications

- DECT frequency band
  - DECT Europe: 1880 MHz to 1900 MHz
  - DECT 6.0 North America: 1920 MHz to 1930 MHz
  - DECT Latin America: 1910 MHz to 1930 MHz, except Brazil 1910 MHz to 1920 MHz
  - DECT Asia: 1900 MHz to 1906 MHz
- Handover: Bearer, connection, external
- Out-of-coverage signaling
- Antenna diversity
- Automatic band switching for cruise ship applications (requires IP-DECT)

### Wireless security

- Identity
- Authentication
- Encryption

### Bluetooth 4.1

- Headset profile
- Hands-free profile
- Proximity profile

### Registration

- Up to four systems
- Manual selection
- Automatic selection

### Audio codecs

- G726

### Detailed features

- System languages: Communication Server dependent
  - Hands-free, microphone mute
  - LED for status indication: Four colors (green/orange/red/blue) for battery status, missed calls, messages and Bluetooth
  - Ring tones and vibrate mode
    - Six user-selectable polyphonic tones
    - Volume control: Four values, meeting mode
  - Supports all AGAP (Alcatel-Lucent Generic Access Profile) features on the Alcatel-Lucent communication call servers with TDM (time-division multiplexing) infrastructure
  - Supports all AGAP features on OmniPCX® Enterprise Communication Server with IP-DECT infrastructure
  - Call by name: Personal and system directory on the call server
  - Call log: Centralized call log
    - All, answered, dialed, missed
    - Up to 50 call logs
  - Audio and LED message signaling
  - Programmable keys: F1/F2 keys
  - SD card (optional): Stores user data and duplicates setting to other 8262 handsets
  - Two microphones provide ambient noise reduction
- ### Alarms and notifications
- Periodic live call (every 30 to 999 s, default 90 s)
  - Alarm button call (long-press or multiple presses)
  - Man down call (programmable to 30°, 40° or 60° )
  - No movement call
  - Pull cord (accessory)
  - Shock call
  - Events using Bluetooth Low Energy (BTLE) technology
  - Task progress call (up to nine distinctive actions)

- Status call (reports on/off status, in/out charger)
- Incoming call: Normal, Urgent, Very urgent, Hands-free, specific ring tones
- Alarm acknowledgement
- Alcatel-Lucent OpenTouch® Notification Service (OTNS) compliant

### Location

- Triangulation with up to 4 DECT base stations
- Location through BTLE beacon
- Data transmitted with notification
- External server required

### Serviceability

- Site survey tool
- Diagnostic mode
- USB multiple devices download tool
- Software update over the air (SUOTA), requires IP-DECT

### Software management tool

- USB download tool
- DECT Handsets Unified Support Tool

### Operating environment

- Operating temperature: -10° C to +55° C (14° F to +131° F) (deviation from class 7.3, see (\*) under environmental)
- Storage temperature: -25° C to +55° C (-13° F to +131° F)
- Transport temperature: -40° C to +70° C (-40° F to +158° F)

### Free fall tests

- Handsets dropped 30 times from 1.2 m
- Standard product IEC 60068-2-32, procedure 1, dropped 12 times on concrete floor, extended to 2 meters
- IEC 68-2-32, procedure 2, dropped 1,000 times from 0.5 m

### Chemical resistance test

- 99% concentration of isopropyl alcohol
- Undiluted dish washer detergent
- 3% hydrochloric acid
- M-alcohol (85% methylated ethanol)
- 60% chlorhexidin 0.5 mg/ml

### Regulatory

- Eco design
  - WEEE: EU Directive 2012/19/EU
  - EU ROHS: EU Directive 2011/65/EU; EN 50581:2012
  - Waste of packaging: EU Directive 94/62/ EC
  - Eco design: 2009/125/EC; EC regulation No. 1275/2008 ; EN 50564:2011
  - Battery: EU Directive 2006/66/EC

<sup>1</sup> Available for 8262 DECT only

- Safety:
  - Europe: IEC 60950-1, EN 60950-1
  - USA/Canada: CAN/CSA-22.2 No 60950-1-07 UL 60950-1
- EMC & Radio
  - EN 301 489-1 V1.9.2 (Common)
  - EN 301 489-6 V1.3.1 (DECT)
  - EN 301 489-17 V2.2.1 (Bluetooth)
  - IEC/EN61000-4-2 (Level 3 criteria B (ESD))
  - AS/NZS CISPR 22:2009 + A1:2010
- SAR
  - Europe: EN 50360:2001 +A1: 2012
  - Europe: EN 50566:2013
  - USA: Limit: ANSI/IEEE C95.1
  - USA: Procedures: IEEE 1528:2013 and RF exposure KDB 447498 D01
  - Canada: RSS-102 Issue 4
  - Australia/NZ: EN62209-1:2006/IEC 62209-1:2005
  - Australia/NZ: EN62209-2:2010/IEC 62209-2:2010
  - SAR: 0.019 W/kg
- Acoustic shock
  - Europe: EG 202 518 V1.4.1
  - USA/Canada: UL60950-1 Annex NAD 2-4
- Audio, hearing aid
  - USA/Canada: Section 68.316 and 68.317 of FCC 47 C.F.R. Part 68 or EIA/TIA-504-A (1998) or TIA-1083-A (November 2010)
  - Australia/NZ: AS/ACIF S040:2001

## Radio frequency

- DECT
  - CAT-iq 2.0 including
    - EN 301 406 V2.1.1 (Previous TBR6)
    - EN 300 176-2 (TBR10)
    - ETSI TBR22/A1 (GAP)
  - ETSI TS 102 841 (security)
    - DECT security step A
    - DECT security step B
- Bluetooth
  - EN 300 328 Radio
- Local
  - Australia/NZ: RF AS/NZS4268
  - FCC 47 CFR subpart 15-D
  - FCC 47 CFR subpart 15-C
  - Canada: RSS-213 Issue 2, RSS-247 Issue 1
- Local regulation
  - Australia: AS/CA S004
  - US/Canada: FCC 47 CFR part 68
- EX compliance (8262Ex DECT Handset)
  - ATEX EN 60079-0, EN 60079-11
  - IECEx EN 60079-0, EN 60079-11
- Europe
  - Gas: II 2G Ex ib IIC T4 Gb
  - Dust: II 2D Ex ib IIIC T135°C Db IP65

## Environmental

- Operation: (\*) ETS 300 019 part 1-7 class 7.3 partly weather protected and non- weather protected location

- Storage: ETS 300 019 part 1-1 class 1.2: Weather protected, not temperature-controlled storage locations
- Transport: ETS 300 019 -part 1-2 class 2.3: Public transportation
- IP Class: EN 60529 IP65

## Accessories

- 3BN67346AA Desktop charger
  - Charges one handset and one battery<sup>1</sup>
- 3BN67352AA Vertical pouch
- 3BN67348AA Spare belt and swivel clip
- 3BN67347AA Pull cord
- 3BN67354AA Accessory kit
  - Belt clip covers (X2), Battery doors (x2), Screws for cover (x4), Pull cord covers (X2) and adapted screwdriver
- 3BN67351AA Rack charger
  - Charges up to 6 handsets and 6 batteries
- 3BN67353AA Power supply for rack charger
- 3BN67361AA Spare battery for 8262Ex

## Common accessories with 8232/8242 DECT

- 3BN67335AA Power supply Europe
- 3BN67336AA Power supply worldwide
- 3BN67332AA Spare battery<sup>1</sup>

## Verified Bluetooth headsets

- 3BN67212EU Bluetooth headset Plantronics Voyager Pro
- 3BN67215WW Bluetooth headset Plantronics Voyager Legend

<sup>1</sup> Available for 8262 DECT only