

Alcatel-Lucent 8254 SIP-DECT Handset

The Alcatel-Lucent 8254 SIP-DECT Handset is a ruggedized IP65 handset that provides business communication features over SIP-DECT infrastructures.

Compatible with other Alcatel-Lucent SIP-DECT handsets, the 8254 SIP-DECT Handset is perfect for vertical industries such as Healthcare and Retail. This robust, wireless handset can withstand a 2-meter drop onto concrete.

Antibacterial by design and easy to clean, the handset is ideal for medical staff use. The plastics, lens and rubber components have an antibacterial treatment, and the keypad is designed without gaps, ensuring a greater level of hygiene.

The 8254 SIP-DECT Handset also provides notification and location capabilities, as well as a one-button alarm function to address vertical markets such as Hospitality, Healthcare or any other on-demand environment. The rubber elements provide a better grip for a day-to-day usage, even when the user is wearing gloves.

The 8254 SIP-DECT Handset is compatible with Alcatel-Lucent 8328 and 8368 SIP-DECT base stations.



Features	Benefits
SIP-DECT with CAT-IQ protocol	Enjoy all the business communication features on Alcatel-Lucent SIP-DECT infrastructure (8328 and 8368 base stations)
Affordable ruggedized handset	Connect frontline workers reliably in harsh environments with a handset that withstands 2m drops onto concrete; extend your Alcatel-Lucent SIP-DECT Handset range with an affordable, ruggedized option
Ruggedized IP65 handset	Designed for demanding environments; water and dust resistant
Antibacterial plastics	Easy to clean keypad: designed without interstice for greater hygiene. Antibacterial treatment on plastics, lens and rubber
Large color display	Navigate and easily contact colleagues and customers
Emergency Alarm button	Trigger help quickly with features such as alarm buttons
Text/alarm messaging	Send/receive text messages and alarms from third-party alarm servers

Technical specifications

Physical characteristics

- 8254 SIP-DECT Handset box contains handset, battery, belt clip and safety sheet
- Color: Blue
- Graphic display: 1.8 in, 128 x 160 pixels, 65,000 colors
- Display backlight: White
- Keypad backlight: White
- Hands-free, mute
- Vibrator
- Headset: Jack 3.5 mm, TRRS compliant 1
- Antibacterial plastics:
 - Test method: ISO 22196
 - antibacterial reduction rate: log rate >3 (99.9%)
 - Plastic parts
 - TPEE parts
 - Lens coating
 - Clip rubber grip
 - Keyboard
- Keypad membrane, easy to clean
- Left-side:
 - + and – volume control keys
 - Alarm key
- Front:
 - 3 contextual keys
 - Answer, Hang-up/Off keys
 - 4-way navigation, OK key

Dimensions

- Height: 126 mm (4.96 in)
- Width: 48.5 mm (1.91 in)
- Depth: 21 mm (0.83 in)
- Weight: 132 g (4.66 oz.)

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

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 1920 MHz
- Handover: Bearer, connection, external

- Out-of-coverage signaling
- Antenna diversity
- Automatic band switching for cruise ship applications

Wireless security

- Identity
- Authentication
- Encryption Step C (DSC2)

Registration

- Up to 4 systems
- Manual selection
- Automatic selection

Audio CODECs

- G726, G.722

Detailed features

- MMI languages: EN, FR, DE, ES, IT, NL, PT, DK, SV, NO, TR, PL, RU, HR, SR, SL
 - Hands-free, microphone mute
 - LED: green/orange/red for battery, missed calls, messages
 - Ring tones and vibrate mode
 - 12 user-selectable polyphonic tones
 - Volume control: 6 values
 - Date and time
 - CAT-IQ with Alcatel-Lucent SIP-DECT base stations
 - Call log: Local call log
 - All, answered, dialed, missed
 - Up to 100 call logs entries
 - Messages
 - Message length: 140 characters
 - Call log: Up to 50
 - Up to 50 contacts, 4 numbers each
 - Central directory via base station
 - Call by name
 - 9 speed dial keys
 - Ambient noise reduction
 - Keypad lock
 - Multiple SIP accounts
- ### Alarms and notifications
- Alarm button call and messages (long-press or multiple presses)
 - Status call (reports on/off status)
 - Notification messages: Normal, Urgent, Very urgent, with call back request
 - 6 specific notification ringtones
 - Alarm acknowledgement
 - Compatible with several alarm servers
 - Notification call log: Up to 50 messages

- Pre-alarm management
- Howling audio signal for handset location

Location

- Triangulation with SIP-DECT base stations
- Data transmitted with notification messages
- External server required

Serviceability

- Site survey tool
- Diagnostic mode
- Software Update Over The Air (SUOTA)

Software management tools

- USB download tool
- DECT Handsets unified support tool

Operating environment

- Operating temperature
 - -10° C to +50° C (14°F to +122°F) (restrictions from class 7.3, see (*) under "Environmental")
 - +5° C to +40° C (41°F to +104°F) for charging
- 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

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

Chemical resistance test

- EN ISO 2812-4
- 99% concentration of isopropyl alcohol
- Undiluted dishwasher detergent
- 3% hydrochloric acid
- M-alcohol (85% methylated ethanol)
- 60% chlorhexidine 0.5 mg/ml

Regulatory

- EU directives
 - 2014/53/EU (RED)
 - 2011/65/EU & 2015/863 (RoHS)
 - 94/62/EC (Packaging and Packaging Waste)
- EU regulations
 - 2023/1542 (Battery)
 - 2023/1670 (Ecodesign)

- Safety
 - IEC/UL/CSA/EN 62368-1
- EMC
 - EN 301 489-1
 - EN 301 489-6
 - EN 301 489-17
 - EC/EN61000-4-2 (Level 3 criteria A)
- SAR
 - US: FCC 47 CFR part 2.1093
 - Canada: RSS-102
 - Australia/NZ: 2772.1; 2772.2
 - SAR 0.05 W/kg
- Audio, hearing aid
 - US: FCC part 68.316 and 68.317
 - Canada: CS-03 part V
 - Australia/NZ: AS/ACIF 5040
 - Australia: AS/ACIF 5004

Radio frequency

- CAT-IQ 2.0 including
 - EN 300 176-2 (Audio)
 - ETSI TBR22/A1 (GAP)
 - ETSI TS 102 841 (Profile test)
 - Full support of the DECT Security step C, as specified by the DECT Forum

- DECT Radio standards
 - EN 301 406
 - FCC 47 CFR Part 15 – Subpart D
 - RSS-213

Environmental

- Operation (*): ETS 300 019 class 7.3
- Storage: ETS 300 019 class 1.2
- Transport: ETS 300 019 class 2.3
- IP Class: EN 60529 IP65

Ordering information

Handset

- 3BN67399AA 8254 SIP-DECT Handset

Accessories

- 3BN67371AA 82x4 DECT Handset Desktop charger
- 3BN67372AA 82x4 DECT Handset Dual Desktop charger
- 3BN67382AA 82x4 DECT Handset Rack charger

- 3BN67374AA 82x4 DECT Handset Belt clip
- 3BN67375AA 82x4 DECT Handset Swivel clip
- 3BN67376AA 82x4 DECT Handset Belt Clip cover
- 3BN67384AA 8254 DECT handset Battery door (x10)
- 3BN67373AA 8254 DECT Handset Vertical pouch

Common DECT accessories

- 3BN67332AA DECT Handset battery
- 3BN67335AA DECT Desktop charger PSU Europe
- 3BN67336AA DECT Desktop charger PSU WW
- 3BN67377AA DECT Desktop charger PSU India