

Alcatel-Lucent 8234 SIP-DECT Handset

The Alcatel-Lucent 8234 SIP-DECT Handset is a compact handset that delivers business communication features over a SIP-DECT infrastructure.

The 8234 SIP-DECT Handset offers a colour screen, superior audio quality and Automatic Gain Control (AGC) to handle conversations even in noisy environments.

The compact design, large colour screen and navigation button make the 8234 SIP-DECT Handset easy to use, so contacting colleagues is simple and quick. Excellent audio and an enhanced screwed belt clip add everyday comfort and durability.



Elegant and robust, the Alcatel-Lucent 8234 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)
User-friendly experience	Navigate easily with the backlit colour screen; quickly access logs with the dedicated tool tips
Robust IP40 design	A robust mobile handset for demanding environments, with screwed belt-clip included
Audio comfort	Take calls in handsfree mode, or on a headset; up to 20 h of talk time; microphone mute included
Text messaging	Send and receive messages between handsets without an external server
SUOTA through all Alcatel-Lucent SIP-DECT base stations	Keep the handset current with Software Update Over the Air (SUOTA) for all devices

Technical specifications

Physical characteristics

- 8234 SIP-DECT Handset box contains handset, battery, belt clip and safety sheet
- Color: Blue
- Graphic display: 1.8 in, 128×160 px, 65,000 colors
- Display backlight: White
- Keypad backlight: White
- Hands-free, mute
- Vibrator
- Headset: 3.5 mm jack, TRRS-compliant
- Left side
 - + and – volume control keys
 - Lock keypad
- Front
 - 3 contextual keys
 - Answer, Hang-up/Off keys
 - 4-way navigation, OK key
 - Menu back key

Dimensions

- Height: 119 mm (4.68 in)
- Width: 48.5 mm (1.91 in)
- Depth: 21 mm (0.83 in)
- Weight: 117g (4.13 oz)

Battery pack

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

Radio specification

- DECT frequency band
 - Europe: 1880–1900 MHz
 - North America: 1920–1930 MHz
 - Latin America: 1910–1930 MHz
 - Asia: 1900–1920 MHz
- Handover: Bearer, connection, external
- Out-of-coverage signaling
- Antenna diversity
- Auto band switching for cruise ships

Wireless security

- Identity
- Authentication
- Encryption Step-C (DSC2)

Registration

- Up to 4 systems
- Manual selection
- Automatic selection

Audio CODECs

- G.726, G.722

Serviceability

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

Software management tools

- USB download tool
- DECT Handsets unified support tool

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 log 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

Notifications

- Status call (reports on/off status)
- Notification messages: Normal, Urgent, Very urgent, with call back request
- 6 specific notification ring tones
- Notification acknowledgement
- Compatible with several alarm servers
- Notification call log: Up to 50 messages

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 hardwood floor, extended to 2 m

Chemical resistance test

- 85% methylated ethanol
- 95% ethyl alcohol
- 85% isopropyl alcohol
- Bleach/sodium hypochlorite (1:50)
- Clorox disinfection wipes
- Hydrogen peroxide 3%
- 60% chlorhexidine 0.5 mg/ml
- 3% hydrochloric acid
- Undiluted dishwasher detergent

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 standards
 - EN 301 489-1
 - EN 301 489-6
 - EN 301 489-17
 - IEC/EN61000-4-2 (Level 3 criteria A)
- SAR
 - EU: EN62209-1/EN62209-2
 - USA: FCC 47 CFR part 2.1093
 - CAN: RSS-102
 - AU/NZS 2772.1; 2772.2
 - SAR Europe/Australia
 - 0.035 W/kg 10g head
 - 0.024 W/kg 10g body
 - SAR USA/Canada
 - 0.04 W/kg 1g head
 - 0.02 W/kg 1g body
- Acoustic shock
 - Europe: EG 202 518
- Audio, hearing aid
 - US: FCC part 68.316 and 68.317
 - Canada: CS-03 part V
 - Australia/NZ: AS/ACIF S040
 - Australia: AS/ACIF S004

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 IP40

Ordering information

Handset

- 3BN67397AA 8234 SIP-DECT

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

- 3BN67383AA 8234 DECT handset Battery door (x10)
- 3BN67379AA 8234 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