The Alcatel-Lucent 8242 DECT handset offers a rich on-site mobility communication experience, leveraging all capabilities of the powerful OmniPCX® Enterprise Communication server and OXO Connect.

Day-to-day communication activities are made easier for mobile workforces, with new 8242 DECT features such as a large color screen for crystal-clear readability, HD audio-ready technology for superior sound quality, Bluetooth technology for headset use, as well as USB connectivity.

Designed as a high-end business terminal, the 8242 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.

**Features**
- Alcatel-Lucent telephony protocol (AGAP)
- Lightweight, ergonomic design and intuitive operation
- Large (2.4 in), 65,000 color thin-film-transistor (TFT) display with 320 x 240 pixel resolution
- Keypad and display backlight
- Programmable keys
- Hands-free, microphone mute and vibrate modes
- Headset jack (3.5 mm)
- Antenna diversity
- Direct micro-USB charging
- Embedded alarm applications: Notification- and location-based services
- Alarm button
- Bluetooth headset profile

**Benefits**
- Investment protection: Compatible with previously deployed Alcatel-Lucent base stations
- Supports large Alcatel-Lucent OmniPCX Enterprise campus configurations
- IP-DECT connectivity
- Notification- and location-based services:
  - Location alarm signal when alarm is triggered to help locate user
  - Up to four notification call types from server
  - Personal protection and location features require an external server
  - Task monitoring can be signaled by handset to central server (e.g., hospitality, healthcare, warehousing)
- Excellent voice quality and business telephony features improve user responsiveness and business productivity
- Green: Economy mode automatically uses low radio emission power (25 mW peak)
- Low power mode (50 mW) makes it suitable for demanding environments (require specific site survey)
Technical specifications

Physical characteristics
• Box contains handset, battery, belt clip and regulatory notice
• Color: Black
• Graphic display: 2.4 in.; 65,000 colors; 320 x 240 pixels
• Display backlight: White
• Keypad backlight: Blue
• Belt clip: Spring-loaded; optional swivel clip
• Headset jack: 3.5 mm; TRRS compliant

Dimensions
• Height: 142 mm (5.59 in.)
• Width: 51 mm (2.00 in.)
• Depth: 23 mm (0.90 in.)
• Weight: 135 grams (4.76 oz)

Mechanical characteristics
• Charging on desktop charger or micro-USB type B connector

Battery pack
• Easily replaceable, 1,100-mAh lithium-ion battery
• Talk time: Up to 17 hours
• Standby time: Up to 160 hours
• Charging time: Less than 3 hours

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

Bluetooth V3.0
• Headset profile
• Handsfree Profile

Wireless security
• Identity
• Authentication
• Encryption

Registration
• Up to four systems
• Manual selection
• Automatic selection

Audio CODECs
• G726
• G722 wideband ready

Detailed features
• System languages: Communication server-dependent
• Handset MMI languages (GAP mode and system-independent features)
  ~ English
  ~ French
  ~ German
  ~ Spanish
  ~ Italian
  ~ Dutch
  ~ Portuguese
  ~ Danish
  ~ Swedish
  ~ Norwegian
  ~ Finnish
  ~ Turkish
• Handsfree, microphone mute and vibrate modes
• LED for status indication; three colors (green/orange/red) for battery status, missed calls and messages
• Ring tones
  ~ Six user-selectable polyphonic tones
  ~ Volume control: four settings; meeting mode
• Supports all AGAP features on communication servers with TDM infrastructure
• Supports all AGAP features on OmniPCX Enterprise Communication Server with IP-DECT infrastructure
• Supports GAP features on the Alcatel-Lucent OXO Connect and OmniPCX Office RCE if the suite has an IP-DECT infrastructure
• Call by name: Personal and system directory
• Call log: Centralized call log
  • Call log (GAP mode):
    ~ All, answered, dialed, missed
    ~ Up to 50 call logs
• Contacts (GAP mode)
  • Name, up to 4 numbers per contact
  • Up to 50 contacts and 500 with Memory SD card (Optional)
  • 8 speed-dial options
• Audio and LED message signaling
• Programmable keys: F1/F2 keys
• Calendar application:
  ~ Subject, location, reminder
• Memory SD card (optional): Stores user data

Alarm notification
• Periodic live call (every 30 to 999 seconds, default 90 seconds)
• Alarm button call (Alarm key long push)
• Task progress call (up to 9 distinctive actions)
• Status call (reports on/off status, in/out charger)
• Incoming call: Normal, urgent, very urgent, hands-free, specific ringtones
• Alarm acknowledgement

Location
• Triangulation with up to 4 DECT base stations
• Data transmitted with notification messages
• External server required
• Location audio signal

Operating environment
• Operating temperature: 14°F to 104°F (-10°C to +40°C)
• Storage temperature: -13°F to +131°F (-25°C to +55°C)

Serviceability
• Site survey tool
• Diagnostic mode
• Syslog mode
• Software update over the air (SUOTA) ready – requires IP-DECT

Software management tools
• DECT Handsets Unified Support Tool
• USB download

Regulatory
EU directives
• R&TTE 1999/5/EC
• LVD2006/95/EC
• EMC 2004/108/EC
• Eco design 2009/125/EC
• RoHS 2011/65/EU

Safety
• EN 60950-1: 2006 A11; A1; A12
• IEC 60950-1: 2005; Am1
• UL 60950-1 ed2
• CAN/CSA C22.2 60950-1-07 ed02

EMC and radio
• EN 301 489-1
• EN 301 489-6
• IEC/EN 61000-4-2 Level 3 criteria B
• IEC/EN 61000-4-3 Level 3 criteria A
• EN 301 406 (TBR6)
• FCC 47CFR part 15 subpart D
• IC RSS-213
SAR
• EN 50360
• IEE 1528
• RSS-102
• SAR value: 0.018 W/kg

Audio, hearing aid
• FCC 47CFR Part 68
• Canada: CS-03 part V
• Australia: ACIF S040

DECT
• EN 301 406 (TBR6)
• EN 300 176-2 (TBR10)
• EN 300 175-8 (DECT audio)
• TBR22
  ~ ETSi TS 102 841 (security)
• DECT security certification program step A
• DECT security certification program step B

Bluetooth
• EN 301 489-17
• EN 300 328 Radio
• RF AS/NZS4268
• FCC part15-C
• RSS-210

  Local regulations
• Australia: AS/CA 5004
• US/Canada: FCC 47 CFR part 68
• New Zealand: PTC220

Acoustic shocks
• UL 60950-1 Annex NAD
• EG 202 518

Environmental
• Operation: ETS 300 019 part 1-7 class 7.2
• Storage: ETS 300 019 part 1-1 class 1.2
• Transport: ETS 300 019 –part 1-2 class 2.3
• IP Class: EN 60529 IP40

Accessories
• 3BN67331AB desktop charger: Charges one handset (with USB cable)
• 3BN67341AA Dual charger: Charges one handset and one spare battery (with USB cable)
• 3BN67335AA power supply for European plugs
• 3BN67336AA power supply for US, UK and Australian plugs
• 3BN67332AA spare battery
• 3BN67333AA spare belt clip
• 3BN67334AA swivel clip
• 3BN67343AA vertical pouch
• 3BN67344AA horizontal pouch

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