ALCATEL-LUCENT 500/500EX DECT HANDSET
R110

The Alcatel-Lucent 500 DECT handset provides a convenient and practical solution for all demanding business environment such as Industrial or Healthcare. It includes a rugged design, including IP54 Ingress protection and features a color display, Vibrator, Loudspeaker, wired or wireless Bluetooth™ headset connectivity. The Alcatel-Lucent 500 DECT Handset offers also personal protection with an Alarm key, Man down, No Movement, and Shock detection which can trigger calls to a dedicated server as well as receive notification messages from a dedicated server, with corresponding ringing signals or loudspeaker that can alert the user. The Alcatel-Lucent 500 DECT handset can provide location information to a dedicated server, using base station triangulation information.

The Alcatel-Lucent 500Ex DECT handset offers all the features of the 500 DECT handset in hazardous environments where there are potential risks of explosion.

**500 DECT handset
3BN67200AA**

**500Ex DECT handset
3BN67213AA**

KEY FEATURES

- DECT GAP protocol
- DECT Security (identity, authentication, encryption
- Roaming and Hand-over
- Call log (all, sent, answered, missed)
- 7 user customizable profiles
- local contacts
- OmniPCX Office Central directory access on TDM/IP-DECT infrastructures
- OmniPCX Enterprise Central directory access on IP-DECT
- Up to 10 speed dial entries
- Loudspeaker/mute during call
- 16 ringing melodies plus 4 dedicated to alarming functions
- Agenda, alarm clock, calculator, stopwatch
- Programmable start-up screen, screen saver, themes
- Status led (missed calls, Battery status, alarm calls)
- 500 Ex ATEX compliance classification:
  - ¬ II 3 G Ex ic IIC T4 EPL Gc
  - ¬ IECEX & NEC500 compliance

KEY BENEFITS

- Rugged design for harsh environments
- IP54 Ingress protection
- Personal protection features:
  - ¬ Alarms key, Man down, No movement, Shock.
  - ¬ User configurations password protected.
  - ¬ Man down angle selection between 30-40-60°
  - ¬ Configurable detections & validation phases
  - ¬ Location alarm signal when alarm triggered to help locate user
  - ¬ up to 4 notification calls types from server
- Location features, with enhanced accuracy using up to 4 Base stations
- Personal protection features & Location requires an external server.
- Task monitoring can be signaled by Handset to central server (Hospitality, healthcare, Warehousing…)

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AT THE SPEED OF IDEAS™

TECHNICAL SPECIFICATIONS

Mechanical Characteristics

- Dimensions height x width x depth:
  5.0 x 1.81 x 0.87 in. (127 x 46 x 22 mm)
- Weight: 4.23oz, 120 grams
- Color: Black
- Graphic display: 1,8', 262k Colors,
  128 x 160 pixels
- Display backlight white
- Keypad backlight: blue
- Hands-free, mute
- Vibrator
- Headset: Jack 2,5mm, Bluetooth™ with
  optional card
- Led for status indication, 3 colors, user
  customizable
- Profiles: 7, user customizable, short
  key access
- Ring tones: 16 user selectable polyphonic
  with 6 steps volume control, 4 dedicated
  notification ring tones
- Display: user selectable (4 themes,
  7 wallpaper pictures)
- Handset MMI languages: English, French,
  German, Spanish, Italian, Dutch, Swedish,
  Danish, Portuguese, Polish, Greek, Turkish,
  Russian
- System languages: Communication server
  dependant

Battery pack

- Li-Polymer, easily replaceable
- Talk time: up to 10 hours
- Standby time: up to 100 hours
- Charging time: approx 9 hours

Box contains

- Handset, Battery Belt clip, Regulatory
  notice

Radio specifications

- DECT
- Frequency range:
  ¬ DECT Europe – 1880-1900 MHz
  ¬ DECT 6.0 (NA) – 1920-1930 MHz
  ¬ DECT Latam – 1910-1930 MHz
    except Brazil 1910-1920 Mhz
- Hand-over: Bearer, Connection,
- Out of coverage signaling
- Antenna diversity

Wireless security

- Identity
- Authentication
- Encryption

Bluetooth™

- Headset profile 1.1

Registration

- Up to 4 systems
- Manual selection
- Automatic selection

- Automatic Band switching, cruise ship
  (requires IP-DECT)

Audio codecs

- G726

Features

- Call by name:
  ¬ Local
  ¬ OmniPCX Office directory
- Call log:
  ¬ All, answered, Dialed, Missed
  ¬ up to 500 call logs*
- Contacts:
  ¬ Name, up to 4 numbers per contact,
    choice of ringing among the 20 available
  ¬ up to 250 contacts*
- Messaging:
  ¬ up to 250 messages of 160 characters*
- Calendar:
  ¬ Subject, location, reminder
  ¬ up to 500 appointments*
- Calculator, stopwatch, alarm
- Memory card (optional): stores user data
  and support transfer to another 500 DECT
  Handset

* Requires additional memory card, capacity
values above are for each stand alone feature,
total memory is shared by all features.

Notification

- Periodic Live call (every 30 to 999 sec,
  default 90 sec.)
- Alarm button call (Alarm key long push)
- Man down call (programmable 30°-40°-60°
- No Movement call
- Shock call
- 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 ringing tones

Location

- Triangulation with up to 4 DECT base
  stations
- Data transmitted with Notification messages
- External server required

Environmental

- Operating temperature: -10°C to +45°C,
  (14 to 113°F) ETS 300 019 part 1-7
  class 7.2
- Storage temperature: - 25°C to +55°C
  (-13 to +131°F) ETS 300 019 part 1-1
  class 1.2
- IP Class: IP54 (EN 60529)

Serviceability

- Site survey tool
- Diagnostic mode
- Syslog mode
- USB download tool

- SUOTA (Software update over the air),
  requires IP-DECT

Software management tool

- USB Download tool
- Flashloader

Regulatory

- EC Directive
  ¬ 1999/5/EC (R&TTE)
  ¬ 2005/32/EC (Eco Design)
- Safety:
  ¬ IEC 60950-1
  ¬ EN 60950-1
  ¬ UL 60950-1
  ¬ CAN/CSA-22.2 No 60950-1
- EMC & Radio
  ¬ EN 301 489-1
  ¬ EN 301 489-6
  ¬ IEC/EN61000-4-2
    – Level3 criteria B
  ¬ IEC/EN61000-4-3
    – Level3 criteria A
  ¬ EN 301 406
  ¬ FCC 47CFR part 15 subpart D
  ¬ IC RSS-213
- SAR
  ¬ EN 50360:2001
  ¬ FCC OET Bulletin 65
  ¬ IEE 1528
  ¬ SAR value: 0,04W/kg
- Audio, Hearing Aid
  ¬ 47CFR Part 68
  ¬ Canada CS-03
  ¬ ANSI/TIA/EIA-504
- Telecom
  ¬ TBR22
  ¬ EN 300 176-2
  ¬ ETS 300 245-2
- EX compliance (500Ex DECT handset)
  ¬ ATEX EN 60079-0, EN 60079-11
  ¬ IECEX EN 60079-0, EN 60079-11
  ¬ Classification II 3 G Ex ic IIC T4 EPL Gc
  ¬ NEC500-NEC505 CEC Canada

Accessories

- 3BN67201AA Desktop charger
  ¬ Charges one handset and one battery
- 3BN67207AA Power supply
  ¬ Europe, US, UK, Australia plugs
- 3BN67206AA Rack charger
  ¬ Charges up to 6 handsets & 6 batteries
- 3BN67202AA Spare battery
- 3BN67208AA Vertical pouch
- 3BN67209AA Horizontal pouch
- 3BN67203AA Spare belt clip
- 3BN67204AA Swivel clip
- 3BN67210AA 5 Memory cards
- 3BN67205AA Bluetooth module
- 3BN67214AA 500Ex Spare battery
- Ceotronics Headset for 500Ex DECT
  handset in hazardous area: CT-PTT/
  ASR-Communication Headset ATEX

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