Alcatel-Lucent 8118/8128/8128 SE WLAN handsets

The Alcatel-Lucent 8118/8128/8128 SE wireless LAN (WLAN) handsets provide a convenient and practical solution for any business environment. The three handsets are equipped with IEEE 802.11a/b/g standard radio support so that businesses can choose the Wi-Fi implementation that best addresses their need for application segmentation, interference mitigation and user density. The Alcatel-Lucent 8118 WLAN handset meets most office mobility needs. The Alcatel-Lucent 8128/8128 SE WLAN handset extend the capabilities of the 8118 WLAN handset to include a color display, hands-free, Ekahau Real Time Location System (RTLS) support and push-to-talk capabilities for workgroup communications on Alcatel-Lucent communications servers.

Features
- Supports Alcatel-Lucent telephony protocol (8118/8128)
- Supports SIP (8128 SE)
- Supports 802.11a/b/g radio
- Leverages the Wireless LAN for voice and data applications
- Delivers wideband audio and high voice quality using standardiz (QoS) on OmniAccess® WLAN infrastructures
- Supports seamless handover based on the OmniAccess WLAN in
- Provides direct access to dial-by-name and speakerphone functi
- Supports over-the-air software upgrades
- Supports quick phone parameter configuration through the USB

Benefits

- Infrastructure investment protection (compatible with 802.11a/b/g radio networks and WLAN infrastructure standards)
- Delivers business telephony features throughout the workplace, contributing to improved end-user responsiveness and productivity
- Interchangeable battery units to support the most demanding enterprise usage requirements
- Enhanced durability (shock, vibration, liquid and dust resistance)
- Support for both existing Alcatel-Lucent 300/600 WLAN handsets and 310/610 WLAN handsets on existing infrastructures
- Support for wireless security: Wi-Fi Protected Access (WPA and WPA2) and Wireless Encryption Protocol (WEP)
- Enhanced design, soft case painting for 8128/8128 SE
- Increased autonomy: Up to 15 hours talk time
- Integration with OTNS Ecosystem

Technical specifications

Mechanical characteristics
- Dimensions: (height x width x depth) 5.27 in. x 2.08 in. x 1.02 in. (134 mm x 53 mm x 26 mm)
- Weight: 4.8 oz (136 g)
- Color:
  - ¬ 8118: Black/silver
  - ¬ 8128/8128 SE: Black, soft paint
- Graphic display:
  - ¬ 8118: Monochrome, 112 pixels x 115 pixels
  - ¬ 8128/8128 SE: 65K Colors, 176 pixels x 220 pixels
- Display backlight
- Keypad backlight on 8128/8128 SE
- Hands-free on 8128/8128 SE
- Vibrator
- Headset connector 2.5 mm
- LED for status indication
- Profile key:
  - ¬ 8118: 4 defined profiles
  - ¬ 8128/8128 SE: 10 configurable profiles
- Push to Talk: 8128/8128 SE and OmniPCX® Enterprise required
- Ring tones: 6 user selectable with 8-step volume control
- Screensaver: 8128/8128 SE – Customizable
- Handset MMI languages: English U.S., French, German, Spanish, Italian, Dutch, Swedish, Danish, Norwegian, Finnish, Portuguese, Polish, Flemish, Czech, Greek, Hungarian, Turkish, Russian, 1 additional downloadable
- System languages: Communication server dependant

Battery pack
- Li-Polymer
- Talk time: Up to 15 hours
- Standby time: Up to 100 hours
- Charging time: 2.5 hours
- Charge/discharge cycles: ≥ 80% capacity after 400 cycles

Radio specifications
- WLAN
- Wireless standard: IEEE 802.11a/b/g
- Frequency range:
  - ¬ 2.4 GHz to 2.4835 GHz ('b' and 'g')
  - ¬ 5.15 GHz to 5.35 GHz and 5.725 GHz to 5.85 GHz ('a' in North America)
  - ¬ 5.15 GHz to 5.35 GHz and 5.47 GHz to 5.725 GHz ('a' in Europe)
- Radio frequency output power:
  - ¬ Dynamic according to 802.11h
  - ¬ Adjustable through configuration
  - ¬ Up to 100 mW/20 dBm

Protocol specifications
- Alcatel-Lucent communication servers (NOE)
- SIP for SE

Quality of service
- Standardized:
  - ¬ 802.11e, WMM (EDCA)
  - ¬ WMM Power Save (U-APSD)
  - ¬ Call admission control: TSPEC, WMM AC
- Cisco CCXv2

Roaming enhancement
- PMK caching
- OKC (opportunistic key caching)
- CCKM (Cisco)

Audio codecs
- ITU-T G.711 (A and µ law) G729AB

IP address assignment
- Static, DHCP

DSCP
- PBX or local settings

TFTP
- Yes
- SUOTA (software update over the air)

Wireless security
- 802.11i
- WEP 64 and 128 bits
- WPA/PSK and WPA2/PSK
- Cisco FSR

Authentication
- PEAP-MSCHAPv2
- EAP-TLS
- EAP-FAST
- Radius servers: Microsoft IAS, Steel-Belted, Free Radius

Certificates
- Factory
- Up to 4 root and clients

Registration
- Up to 4 systems
- Manual selection

WLAN infrastructures

- Alcatel-Lucent: AP, IAP
- Aruba
- Cisco
- Meru, Trapeze, Motorola (supported within Premium Customer support process). Refer to PCS documents for availability

Directory look-up

- Call by name: 8118/8128/8128 SE
  - ¬ 8128 SE requires Central Management IMS3 Gateway

Location and notifications

- 8128/8128 SE: Ekahau RLTS
- Alarm key: 8128/8128 SE

Notifications

- OpenTouch Notification Service Integration (OTNS): notifications, loudspeaker announcement, alarm call, panic button

Environmental

- Operating temperature: -5ºC to +45ºC (23ºF to 113ºF)
- Storage temperature: -25ºC to +55ºC (-13ºF to +131ºF)
- IP Class: IP44, IEC 60529

Serviceability

- Site survey tool
- Diagnostic mode
- Syslog mode
- Software upgrade through TFTP

Configuration tool

- USB configuration cradle station
- WinPDM (Windows portable device manager)
- Central management IMS3

Regulatory

- EC Directive:
  - ¬ 1999/5/EC (R&TTE)
  - ¬ 2009/125/EC (Eco Design)
- Safety:
  - ¬ IEC 60950-1
  - ¬ EN 60950-1
  - ¬ UL 60950-1
  - ¬ CAN/CSA-22.2 No. 60950-1
- EMC and radio:
  - ¬ EN 300 328
  - ¬ EN 301 893
  - ¬ EN 301 498-1
  - ¬ EN 301 489-17
  - ¬ IEC/EN 61000-4-2 Level 3 Criteria B
  - ¬ IEC/EN 61000-4-3 Level 3 Criteria A
  - ¬ FCC 47CFR Part 15 Subpart B
  - ¬ FCC 47CFR Part 15 Subpart C
  - ¬ FCC 47CFR Part 15 Subpart E
  - ¬ RSS-210 Annex 8
- SAR:
  - ¬ EN 50385
  - ¬ FCC OET Bulletin 65, Supplement C
  - ¬ RSS-102 Issue 3
  - ¬ Normal operation: 1.3 W/kg
  - ¬ Body worn operation: 1.16 W/kg
- Hearing aid: 47CFR Part 68

Accessories

- Desktop charger, 3 models:
  - ¬ 3BN78403AA Europe
  - ¬ 3BN78403AB US-UK-AUS
  - ¬ 3BN78403AC without PSU for countries not supporting above plugs
- 3BN78404AA Standard battery
- 3BN78406AA Rack charger
- 3BN78407AA Battery rack charger
- 3BN78408AA Leather carrying case
- 3BN78409AA Belt clip
- 3BN78410AA Swivel clip
- 3BN78414AA Configuration cradle station
- 3BN78415XX Central management IMS3 Gateway

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