

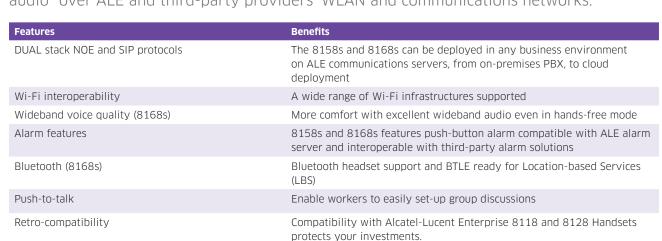
Alcatel-Lucent Enterprise 8158s/8168s WLAN Handsets

Provide customers with an exceptional experience with Alcatel-Lucent Enterprise 8158s and 8168s robust, quality WLAN wireless handsets. A large backlit color screen lets you easily manage your calls with access to all the ALE telephony features.

A Bluetooth headset lets you make secure, hands free, calls. You can be reached at any time, even in expansive industrial and hospital environments. The Alcatel-Lucent Enterprise 8158s and 8168s handsets are water resistant, as well, dust and water drops and are easy to clean. Communicating as a team is instantaneous with the "Push-to-Talk" button.

The alarm button and integration with notification and geolocation solutions can save precious seconds when initiating emergency calls.

Save money with a single WLAN network for your internet traffic and your business communications. Both handsets are compatible with Wi-Fi 6 technology and Alcatel-Lucent OmniAccess® Stellar Access Points. The handsets provide secure, excellent voice quality in "wideband audio" over ALE and third-party providers' WLAN and communications networks.









Technical Specifications

Physical characteristics

- · Color: Black
- · Material:
 - Case: Polycarbonates (PC)
 - Keypad: Coated vulcanized silicone
 - Clip: Polyamide (PA)
- Belt clip: Hinge-type; optional swivel clip

Dimensions

- Height: 137 mm (5.39 in.)
- Width: 52 mm (2.04 in.)
- Depth: 21 mm (0.82 in.)
- Weight: 135 g (4.8 oz) excl. clip

Display

- 31 × 41 mm (2.0 in), TFT color display
- 240 × 320-pixel LCD
- · Display backlight: White

Keys and indications

- Top: alarm button
- Right-side:
 - jack port
- · Left-side:
 - + and volume control keys
 - ¬ push to talk
- · Front:
 - 3 contextual keys
 - Answer, Hang-up/Off keys
 - 4-way navigation, OK button
- Keypad:
 - Backlight
- Illuminated display on:
 - ¬ Incoming call
 - Message
 - Charging
- Vibrator on
 - Incoming call
 - ¬ Message
- · Audio signals
 - ¬ 14 ring signals
 - Aggressive ring signal
 - ¬ 5 beep signals
 - 3 user-defined custom sounds
- · Answer call:
 - Phone button press
 - Headset button press
 - Auto answer

Connectors

- Multi-purpose connector:
 - ¬ Fast software download
 - Configuration
 - Battery charging
- Headset connector: Standard 3.5 mm jack (4 pole)

Battery pack

- All battery times are based on optimal conditions (no roaming or handover and black display)
- · Easy to replace battery
- Li-polymer 3.7 V 920 mAh
- · Speech time: Up to 10 h
- Standby time: Up to 100 h
- Charge time: Less than 4 h

Protocol specifications

- ALE communications servers protocol (NOE)
- Supports SIP protocol:
 - RFC1889, RFC2327, RFC2833, RFC3261, RFC3264, RFC3265, RFC3515, and RFC3842
 - Encryption: SRTP and TLS

Audio

- · Voice codecs:
 - 8168s: Opus Wideband, G.722
 - ¬ G.711 A-law (EU), G.711 u-law (US)
 - G.729, G.729A, G.729B, G.729AB
- Customizable sounds
- Ring signal:
 - Maximum sound level 88 dBA SPL @ 10 cm
 - Adjustable in 8 steps
 - Earpiece: Volume adjustable in 8 steps of 3 dB each
 - Loudspeaker (8168s): Duplex loudspeaker function
 - Comfort noise: Constant noise level enhancing the quality of a call
 - Sound pressure level range for medium priority alarm (one beep):
 - Measured according to IEC 60601-1-8
 - 44 dB-80 dB, adjustable in 8 steps
- Sound pressure level range for high priority alarm (siren):
 - Measured according to IEC 60601-1-8
 - 46 dB-81 dB, adjustable in 8 steps

Directory

- Central directory (system dependent)
- Local directory:
 - Selectable ring signals per contact

Messaging

- · Maximum message length:
 - 160 characters from VoWiFi Handset
 - Message length to VoWiFi Handset is system dependent
- Storage capacity: 30 received/sent messages

Location (8168s)

BTLE, Poll location: system dependant

Alarms types (supported)

- Interoperability with several alarm servers (system dependent)
- · Push button alarm

Languages

Menu and message languages
 (20): Arabic, Chinese (simplified),
 Czech, Danish, Dutch, English,
 Finnish, French, German, Greek,
 Hungarian, Italian, Norwegian, Polish,
 Portuguese (Brazilian), Russian,
 Slovak, Spanish, Swedish, and
 Turkish

Desinfection and Cleaning

Liquid Disinfection Solution

- Ethanol 85%: Sporadic & daily disinfection
- Virkon S 1 %: Daily disinfections
- Actichlor Plus 0,1% Chlorine: Daily disinfections
- Aseptix (H2O2): Daily disinfections
- Chlorhexidin 0.5 mg/ml: Sporadic disinfection
- Chlorhexidin 0.5 mg/ml: Daily disinfections

Cleaning Wipe

- PDI Super Sani-Cloth (Purple)
- PDI Sani-Cloth Plus (Red)
- PDI Sani-Cloth Bleach (Orange)
- PDI Sani-Cloth HB (Green/blueish)
- PDI Sani-Cloth AF3 (Grav)
- PDI Sani-Cloth AF (White)
- Certol Prospray
- Clorox Hydrogen Peroxide (Green)
- Clorox Disinfecting Wipes
- CaviWipes and CaviWipes XL
- Cal Tech Dispatch (With bleach)

Radio specifications

- Receiver sensitivity:
 - -87 dBm (802.11a, 6 Mbps)
 - -93 dBm (802.11b, 1 Mbps)
 - -87 dBm (802.11g, 6 Mbps)
- -86 dBm (802.11n, MCS0)
 Frequency range EU:
 - ¬ b/g: 2.4000-2.4835 GHz (Ch 1-13)
 - a: 5.1500-5.3500 GHz (Ch 36-64), 5.4700-5.7250 GHz (Ch 100-140)
- Frequency range USA:
 - ¬ b/g: 2.4000-2.4735 GHz (Ch 1-11)
 - a: 5.1500-5.3500 GHz (Ch 36-64), 5.4700-5.8500 GHz (Ch 100-165)

- Frequency range Canada
 - b/g: 2.4000-2.4735 GHz (Ch 1-11)
 - a: 5.1500-5.3500 GHz (Ch 36-64),5.4700-5.6000 GHz (Ch 100-116),5.6500-5.8500 GHz (Ch 132-165)
- Maximum average power: 100 mW/20 dBm
- Modulation speed:
 - b: 1, 2, 5.5, 11 Mbps
 - a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
 - ¬ n: MCS-0-MCS-7
 - ac: MCS-0-MCS-9
- Bluetooth radio spectrum: ISM 2.4000-2.4835 GHz
- Output power (8168s): Maximum 3 dBm (Class 1)

WLAN

- Number of networks: Four systems, auto selection and manual selection
- Quality of Service (QoS): WMM, TSPEC-based CAC
- Supported networks: 802.11 a/b/g/n/ ac (MCS0-7)

Wireless security

- Security standard: 802.11i, 802.11w
- Encryption method: AES-CCMP
- · Authentication methods:
 - Open
 - ¬ WPA2-PSK
 - ¬ EAP-FAST
 - ¬ PEAP-MSCHAPv2
 - ¬ EAP-TLS

Roaming enhancement

- 802.11r, 802.11k
- Opportunistic Key Caching
- PMKSA caching

Serviceability

- Site survey tool
- Software update over the air
- Configuration cradle
- Centralized management:
 - Built-in management in ALE communications servers
 - Optional IMS3 Gateway for mass deployment

Regulations and Standards compliance Europe

 EU directives: 2014/53/EU (RED) and RoHS 2015/863 (RoHS3) amending Directive 2011/65/EU (RoHS)

- Product marking: BT QD: 81378
- Radio: EN 300 328, EN 301 893
- Bluetooth: EN 300 328, EN 301 489-17
- SAR (Specific Absorption Rate): EN 50360, 0.637 W/kg (10 gram)
- Safety: EN 60950-1
- EMC: EN 301 489-01, EN 301 489-17. EN 55032

United States

- · Product marking:
 - ¬ FCC ID: BXZWH2
 - ¬ HAC
 - BT QD: 81378
- SAR (Specific Absorption Rate):
 - FCC/OET Bulletin 65 Supplement
 C and IEEE Std. 1528
 - Normal operation 1.108 W/kg (1 gram)
 - Body worn operation 1.586 W/kg (1 gram)
- Safety: UL 60950-1, UL 62368-1
- EMC/Radio: FCC Part 15 E, FCC Part 15 C (Bluetooth), and FCC Part 15 B
- Hearing Aid: FCC Part 20.19

Canada

- · Product marking:
 - IC: 3724B-WH2
 - BT QD: 81378
- SAR (Specific Absorption Rate): RSS-GEN and RSS-247
- Safety:
 - ¬ RSS-102, Issue 5
 - Body Worn 1.586 W/kg (1 gram)
 - Left Head 1.108 W/kg (1 gram)
- EMC/Radio: CAN/CSA-C22.2 NO.60950-1A-07
- Hearing Aid: CS-03 Part V, Issue 9, Amendment 1

Australia and New Zealand

- Product marking:
 - ¬ N1514
 - BT QD: 81378
- Radio: Radiocommunications (Short Range Devices) Standard 2014, AS/NZS 4268
- Bluetooth: AUS/NZS-4771
- SAR (Specific Absorption Rate): EN 62209-1, 0.637 W/kg (10 gram)
- Safety: AUS/NZS 60950-1
- Audio: AS/CA S004

• EMC: Radiocommunications (Electromagnetic Compatibility) Standard 2008

Operating environment

- Operating temperature: -5°C to +45°C (+23°F to +113°F)
- Storage temperature (1): -20°C to +60°C (-4°F to +140°F)
- Charging temperature: 0°C to +50°C (+32°F to +122°F)
- Immunity to electromagnetic field s: 3 V/m IEC 61000-4-3
- Immunity to ESD: 4 kV contact discharge and 8 kV air discharge (IEC 61000-4-2)
- Enclosure protection: Ingress Protection IP44, IEC 60529
- · Free fall test:
 - ¬ IEC 60068-2-32, procedure 1, dropped 12 times from 1 m;
 - IEC 60068-2-32, procedure 2, dropped 1000 times from 0.5 m
- The following chemicals have shown no harmful effect:
 - 3% Hydrochloric Acid M-alcohol (70% Methylated Ethanol)
 - ¬ 60% Chlorhexidine 0.5 mg/ml

Accessories

- · Desktop charger, 3 models:
 - 3BN78403AA 81X8 Desktop charger Europe
 - 3BN78403AB 81X8 Desktop charger US-UK-AUS
 - 3BN78403AC 81X8 Desktop charger US-UK-AUS without PSU for countries not supporting above plugs
- 3BN78406AA 81X8 Rack charger
- 3BN78414AA 81X8 Configuration cradle
- 3BN78415XX Central management IMS3 Gateway
- 3BN78423AA 8158S/8168S Belt clip
- 3BN78424AA 8158S/8168S
 Carrying case
- 3BN78425AA 8158S/8168S Swivel clip
- 3BN78426AA 8158S/8168S Batteries rack charger
- 3BN78427AA 8158S/8168S LI-ION battery pack

^{*}Check the Release notes published by Alcatel-Lucent Enterprise to discover more on features availability

