



# Alcatel-Lucent 8318 SIP-DECT Single Base Station

Cost-effective, on-site mobility  
for small branch offices

The Alcatel-Lucent 8318 SIP-DECT Single Base Station (8318 BS) is a cost-effective, wireless base station that offers on-site mobile communications to small branch offices and stores in shopping malls. It offers single cell coverage with excellent quality voice communications for up to 20 Alcatel-Lucent 8212 DECT handsets. The 8318 BS offers intuitive, web-based management for cost-effective operations. It connects to the IP network, leveraging it for both data and communications. The 8318 BS is the ideal solution for businesses looking to complement their Alcatel-Lucent DECT infrastructure with on-site mobility for small branch offices.



## Features

- Up to 5 calls using G711 (4 using G.729)
- Up to 20 8212 DECT handsets registered
- Intuitive directory lookup (XML file or corporate LDAP)
- Multiline, Call groups, Conference (3-PTY)
- Web-based management for auto provisioning

## Benefits

- Excellent voice quality communications while on-site
- Customers can reach employees wherever they are in a small branch office
- Cost-effective, IP-DECT solution for small branch offices
- Cost-effective operations

## Technical specifications

### Radio specifications

- DECT/GAP
- Frequency band
  - Europe/ETSI: 1.88 GHz – 1.90 GHz

### Functionality

- Channel bandwidth: 1.728 MHz
- Transmission carriers: 10
- Maximum number of simultaneous active calls: 5
- RF power 250 mW
- Radio coverage from 50 m to 300 m (approximately 55 yd to 328 yd) depending on location and environment
- Switched antenna diversity
- One reset key for restart and restore factory defaults

### DECT protocol specifications

- No support of GAP-compliant devices
- Support identity, authentication and encryption
- Audio CODEC G726
- Handsets registration: 20
- No support of repeaters
- No roaming, no handover

### IP specifications

- IPv4
- TCP/IP/UDP
- DHCP/TFTP, DHCP option 66
- Static IP address supported
- VLAN 802.1 Q
- QoS: IEEE 802.1 p/Q
- Audio CODEC: G711 (A,μ), G729A
- Framing: 20 ms, 40 ms, 60 ms or 80 ms
- Certificates support readiness X.509 (not included)
- TLS 1.0
- SNTP for clock synchronization
- TCP/IP/UDP

### Network interface

- 10/100Base-T, IEEE802.3 Ethernet port
- RJ45 connector
- Cabling CAT5 or CAT 6 UTP

### Power feeding

- Input: 100-240 VAC 50-60Hz
- Output Nom: 5VDC 600mA
- Plug UK, EU

### Dimensions

#### Indoor (Wall mountable)

- Height: 118 mm (4.64 in)
- Width: 177 mm (6.97 in)
- Depth: 32 mm (1.26 in)
- Weight: 173 g (6.1 oz.)

### Serviceability

- LED multi-color status indication: Red, Green, Orange
- Firmware and configuration file download: TFTP, HTTP, HTTPS
- Web-based management: Embedded web server accessed using HTTP
- Remote/auto provisioning
- Syslog client, and SIP log

### SIP specifications (non-exhaustive list)

- RFC 3261: Session Initiation Protocol (SIP)
- RFC 2833: RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals
- RFC 2976: The SIP INFO Method
- RFC 3263: Session Initiation Protocol (SIP): Locating SIP Servers
- RFC 3264: An Offer/Answer Model with the Session Description Protocol
- RFC 3515: The SIP Refer Method
- RFC 3892: The Session Initiation Protocol (SIP) Referred-By Mechanism

### Communication Servers

- Alcatel-Lucent OmniPCX Enterprise Communication Server R12.1 and above

### Product ships with

- 8318 SIP-DECT Single Base Station
- Power supply with UK, EU and AUS adaptors
- 1 meter Ethernet cable
- Safety sheet

### Mobile handsets

The handsets supported by the 8318 SIP-DECT Single Base Station are:

- 3BN67355AA 8212 DECT Handset with Desktop charger
- 3BN07004AA 8212 DECT Handset with Desktop charger and PSU Europe 3BN67335AA
- 3BN07005AA 8212 DECT Handset with Desktop charger and PSU WW 3BN67336AA

### Communication features

- 5 simultaneous calls supported (G.711) or 4 simultaneous compressed calls (G.729)
- 2 simultaneous calls per handset
- Codec negotiation, switching
- Call hold-retrieve
- Call Transfer Announced-Unannounced
- Conference (3-PTY)
- Call waiting Indication
- CLIP/CNIP
- Central phone book using LDAP or XML, CSV files remote or file load from web interface
- Call Forward from base or handset: CFU, CFNA, CFB
- Call group up to 20 handsets

### Regulatory and international directives

- EU directives
  - RED 2014/53/EU
  - ROHS 2011/65/EU
  - 2012/19/EU
  - Eco design 2009/125/EC
- Safety
  - IEC 60950-1
  - EN 60950-1
- EMC
  - EN 301 489
  - EN 301 489
- SAR
  - EN 50385
  - AS 2772.2
- DECT
  - EN 301 406

### Environmental

- Operating temperature: -5°C to +45°C
- Storage/transport temperature: -20°C to +65°C
- IP Class (IEC 60529)
  - Indoor base station: IP40