

# ALCATEL-LUCENT 8340 SMART IP-DECT ACCESS POINTS

## 8340 SMART IP-DECT AP INTEGRATED ANTENNAS 8340-C SMART IP-DECT AP INTEGRATED ANTENNAS AND 8340 SMART IP-DECT AP EXTERNAL ANTENNAS

The Alcatel-Lucent 8340 Smart IP-DECT Access Points (APs) product family provides DECT connectivity on OpenTouch Suite for MLE and for small and medium business (SMB), to offer cost-effective, on-site mobility using IP network connectivity. In conjunction with Alcatel-Lucent 8232/8242/8262/500 Ex DECT handsets, the 8340 Smart IP-DECT APs offer reliable voice communications and full integration with the OmniPCX Enterprise CS voice services (such as dial-by-name or multi-line management) to provide seamless feature transition between Alcatel-Lucent fixed desk phones and on-site mobility.

The 8340-C Smart IP-DECT AP integrated antenna takes benefit of all the features of the 8340 Smart IP-DECT integrated antennas except the support of G729AB Voice audio codec.

The Alcatel-Lucent 8340 IP-DECT is HD-voice ready according to CAT-iq and will protect your investment when end to end high audio quality will be available and is compatible with existing 4080 IP-DECT installations.



**8340 Smart IP-DECT AP Integrated Antennas**  
**3BN67188AA**

**8340-C Smart IP-DECT AP integrated antennas**  
**3BN67190AA**



**8340 Smart IP-DECT AP External Antennas**  
**in outdoor box**  
**3BN67189AA+3BN67184AA+3BN67185AA**

### KEY FEATURES

- Support Alcatel-Lucent OmniPCX telephony protocol: AGAP
- Support GAP protocol
- Support identity, authentication and encryption as defined in ETSI
- Radio coverage from 50 m to 300 m (approximately 55 yd to 328 yd) depending on location and environment
- Switched antenna diversity
- Products for all frequency bands: Europe, US (DECT 6.0), South America and Asia
- Adapted for indoor and outdoor environments
- Integrated antennas
- SMA connectors for external antennas on indoor and outdoor models

### KEY BENEFITS

- Provide cost-effective on-site mobility in IP-only and IP/TDM networks
- Offer end users access to OmniPCX Enterprise call server voice features
- Adapted for all enterprise environments: office and industrial
- Suitable for mid-sized and large enterprises as well as branch offices
- Coverage can fit most difficult areas using external antennas
  - Support 8232 DECT handsets in AGAP mode 8232/8242/8262/500Ex in GAP mode on OmniPCX Enterprise
  - Support 8232/8242/500Ex in GAP mode on OmniPCX Office RCE with corporate directory and messaging
  - HD-voice ready according to CAT-iq
  - Compatible with 4080 IP-DECT existing installations

## TECHNICAL SPECIFICATIONS

### Radio specifications

- DECT/GAP
- Frequency band
  - Europe: 1.88 GHz – 1.90 GHz
  - US: 1.92 GHz – 1.93 GHz
  - South America: 1.91 GHz – 1.93 GHz except Brazil 1910-1920 Mhz
  - Asia: 1.90 GHz – 1.906 GHz

### Functionality

- Channels can be disabled by DECT AP (DAP) manager to adapt to local regulations
- Channel bandwidth: 1.728 MHz
- Transmission carriers: 10
- Maximum number of simultaneous active calls: 11
- Over the air synchronization; requires one channel
- RF power 250 mW, limited to 100 mW for US (DECT 6.0)
- Sensitivity: Typical -90 dBm measured at antenna connection at BER=0.001
- Radio coverage from 50 m to 300 m (approximately 55 yd to 328 yd) depending on location and environment
- Switched antenna diversity
- Integrated omni-directional antenna 3dBi gain (maximum)
- SMA connectors for connecting external antennas
- SAR: < 0.283 W/kg for 11 simultaneous active calls

### DECT protocol specifications

- ETSI GAP compliant
- Alcatel-Lucent AGAP protocol
- Support identity, authentication and encryption
- Audio CODEC G726
- OmniPCX Enterprise configuration: up to 256 access points per system; 750 access points with Premium Customer Support process, 1500 DECT handsets
- OmniPCX Office RCE configuration: up to 16 access points and 50 DECT handsets

\* not available on 8340-C Smart IP-DECT AP integrated antennas

### IP specifications

- IPV4
- DHCP/TFTP, DHCP option 12
- Multicast RFC1112: multicast-aware routers
- QoS: IEEE 802.1 P/Q
- Audio CODEC: G711 (A,μ), G729AB \*
- Framing: 20 ms, 30 ms, 40 ms, 50 ms or 60 ms
- Manufacturing & customer certificates support readiness

### Electrical interface

- IP interface 10/100Base-T, IEEE802.3
- IPV4
- RJ45 connector
- Cabling CAT5 or CAT 6 UTP

### Power feeding

- Remote power feeding on IP link 802.3af
- PoE class 2 (6.49 W maximum)
- Local power feeding for extended wiring range to call server must comply with clause 2.5 (limited power source) per CSA/UL/IEC/EN60950-1
- Uses same PoE injector as the Alcatel-Lucent OmniTouch® 8082 My Instant Communicator (IC) Phone

### Operating temperature

- Indoor: 23°F to 113°F (-5°C to 45°C)
- Outdoor: 32°F to 113°F (-20°C to +45°C)

### Dimensions

#### (Wall and ceiling mountable)

#### Indoor

- Height: 6.85 in. (174 mm)
- Width: 5.7 in. (145 mm)
- Depth: 1.69 in. (43 mm)
- Weight: 11.29 oz. (320 g)

#### Outdoor

- Height: 9.45 in. (240 mm)
- Width: 11.42 in. (290 mm)
- Depth: 3.46 in. (88 mm)
- Weight: 43.39 oz. (1.23 kg)

### Serviceability

- LED status indication
- Software downloading from DAP manager
- Web-based management tools
  - Internet Explorer 6 or higher
  - Firefox®

### DAP manager platforms

- Microsoft® Windows® XP Professional, SP2/SP3 32 bits
- Windows 7 Professional/ Enterprise/ Ultimate 32/64 bits
- Windows 8 32/64 bits editions
- Windows Server® 2003 SP2 32 bits
- Windows 8.1 32/64 bits editions
- Windows Server 2003 R2 SP2 32 bits
- Windows Server 2008 SP2 32/64 bits
- Windows Server 2008 R2 SP2 64 bits
- Windows 2012 64 bits server (Windows 8 server)
- Windows 2012 R2 64 bits (Windows 8 server)

### DAP manager hardware requirements

- At least 2.6 GHz CPU speed
- Minimum 1-Gb RAM
- CD-ROM drive
- Minimum 1-Gb hard disk space

### DAP manager software requirements

- Windows Internet Information Services (IIS)

### Regulatory

#### EU directives

- R&TTE 1999/5/EC
- EMC 2004/108/EC
- LVD 2006/95/EC
- ROHS 2011/65/EU
- WEEE 2012/19/EC
- Eco design 2009/125/EC

#### Safety

- IEC 60950-1
- EN 60950-1
- UL 60950-1
- CAN/CSA-22.2 No 60950-1

#### EMC and radio

- EN 301 406
- EN 301 489-01
- EN 301 489-06
- IEC 61000-4-2 Level 3 criteria B
- IEC 61000-4-3 Level 3 criteria A (3V/m except in GSM frequency range: 10V/m)
- FCC CFR47 Part 15D
- RSS 213
- Anatel (6kV contact discharge and 8 kV air discharge)

## **SAR**

- EN 50385
- FCC OET Bulletin 65
- IEEE 1528
- RSS-102

## **DECT**

- EN 300 175
- EN 301 406 (TBR6)
- EN 301 176-2 (TBR10)

## **Environmental**

- ETS
  - Operation (indoor):  
ETSI EN 300 019-1-3-class 3.2
  - Operation (outdoor):  
ETSI EN 300 019-1-4- class 4.1 with  
-20°C for low temperature & +45°C as  
high temperature
  - Storage :  
ETSI EN 300 019-1-1- class 1.2
  - Transport:  
ETSI EN 300-019-1-2-class 2.3
- IP Class
  - IP Class (IEC 60529)
  - Indoor base station: IP40
  - Outdoor base station: IP66

## **Accessories**

- 3BN67184AA outdoor box
- 3BN67185AA 8 dBi Gain antenna
- 3BN67186xA site survey kit
- 3BN67187AA site survey kit tripod
- 3MG27035xx PoE injector
- 3BD52212AA 7,5 dB Gain antenna  
(requires 3DC01001AA)
- 3DC01001AA DC blocking module
- 3BD52205AA 8dB right circular antenna
- 3BD52206AA 8dB left circular antenna