

# AP500

## MULTI CELL BASE STATION

**With the new scalable Multi Cell AP500 base station for Small, Medium and Large Enterprises, we are opening a new chapter in professional and modern IP DECT technology.**

### AP500 MULTI CELL IP DECT BASE STATION

The new easy-to-use base station comes not only in a completely new design, but also with new, versatile functions. In addition to an integrated DECT manager, the AP500 also offers DECT and LAN synchronisation. The integrated DECT manager manages all base stations in one installation and ensures constant availability and seamless handover. This means that calls are seamlessly transferred between the individual base stations – even across floors or buildings. Security is a top priority in daily business communication. With the integrated TLS encryption, the AP500 base station also sets absolute standards in terms of encryption.

### EXTREME SCALABILITY

The new AP500 DECT base station provides a solid foundation for any installation size. From a small office with only one base station up to, for example, a hospital with several hundred devices, the integrated DECT technology, can enable individual installations comprising up to 254 base stations and up to 1.000 handsets. In a DECT project under guidance of NEC a system with 4.000 AP500 Multi Cell base stations and 16.000 handsets can be realised. Thanks to the AP500 base station, the maintenance of the devices can also be carried out easily and efficiently. Each base station can wirelessly send software updates to the connected handsets, greatly reducing the workload for the IT department.



The system easily integrates towards a cloud solution that ensures easy maintenance and flexibility.

### NEC AP500 BENEFITS

- > Up to 254 base stations  
(4.000 for a project supported by NEC)
- > Up to 1.000 handsets  
(16.000 for a project supported by NEC)
- > DECT and LAN synchronisation
- > Over-the-air software updates for handsets
- > Repeater support
- > PoE support
- > TLS encryption
- > Wallmountable
- > Local and LDAP phone book support

**DECT**

- > Frequency bands:
  - 1880-1900 MHz (EU)
  - 1920-1930 MHz (US)
  - 1910-1930 MHz (Latam)
- > Output power: EU < 250 mW, USA < 100 mW
- > Protocols: DECT, DECT 6.0
- > Seamless handover and roaming
  - Handover using DECT or LAN synchronisation (IEEE1588)
- > Wideband and narrowband audio
- > Authentication/encryption of base and handset

**RANGE**

- > Indoors: Up to 50 meters
- > Outdoors: Up to 300 meters (for indoor use only)

**MULTICELL SYSTEM**

- > Up to 10 narrowband or 5 wideband (G722) calls per base station
- > Up to 3 repeaters per base station for systems up to 49 base stations
- > Up to 1 repeater per base station for systems up to 127 base stations
- > Up to 100 repeaters in a multicell system

**INSTALLATION**

- > Positioning:
  - Wall mounting
  - Ceiling mounting
- > Static IP, DHCP support
- > NTP (Network Time Protocol)
- > Secure provisioning
- > DECT coverage design by NEC cloud tooling
- > Provisioning: DHCP Options 66
- > Handset firmware update over the air via DECT

**AUDIO, CODECS**

- > G.722 (5 channels)
- > G.711 A-law,  $\mu$ -law
- > Codec negotiation, codec switching

**USER INTERFACES**

- > LED status indication, multicolor
- > Reset key
- > Web interface

**HARDWARE SPECIFICATIONS**

- > Weight: approx. 306g
- > Dimensions: approx. 144x140x35 mm (LxWxD)
- > Antenna diversity (two internal omni-directional antennas for better transmission and reception)
- > Power: Power over Ethernet (PoE) IEEE802.3af Class 2
- > Ethernet connector: RJ 45
- > LAN interface: 10/100 BASE-T IEEE 802.3
- > Colour: White

**NETWORK**

- > HTTP and HTTPS
- > LLDP
- > IEEE 802.1Q
- > TLS 1.2

**COMPATIBLE DECT REPEATER**

- > DECT AP500 Series Repeater



**PBX COMPLIANCE**

- > NEC UNIVERGE SV9100, SV9500
- > NEC UNIVERGE BLUE

**COMPATIBLE HANDSETS**

- > G277 DECT
- > G577(h) DECT



NEC and the NEC logo are trademarks or registered trademarks of NEC Corporation that may be registered in Japan and other jurisdictions. All trademarks identified with © or TM are registered trademarks or trademarks of their respective owners. Models may vary for each country, and due to continuous improvements this specification is subject to change without notice. Please refer to your local NEC representative(s) for further details.

**Australia**  
 NEC Australia  
[nec.com.au](http://nec.com.au)

For further information please contact NEC Australia or: