VOICE DECT

COMTEL



MULTI CELL BASE STATION

VOICE AP500

IP DECT BASE STATION FOR SMALL, MEDIUM AND LARGE ENTERPRISES

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 synchronization.
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 can enable individual installations comprising up to 254 base stations and up to 1.000 handsets.

In a DECT project under guidance of COMTEL 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.

AP500 BENEFITS

> Up to 254 basestations
(4.000 for a project together with COMTEL)
> Up to 1.000 handsets
(16.000 for a project together with COMTEL)
> DECT and LAN synchronisation
> Over-the-air software updates for handsets
> Repeater support
> PoE support
> TLS encryption
> Wallmountable
> Local and LDAP phone book support

VOICE AP500 MULTI CELL

DECT
> Frequency bands:
  · 1880-1900 MHz (EU)
  · 1920-1930 MHz (US)
  · 1910-1930 MHz (Latam)
  · 1880-1900 MHz (Egypt)
> Output power: EU < 250 mW, USA < 100 mW
> Protocols: DECT based on GAP standard, DECT 6.0
> Seamless handover and roaming
> Handover using DECT or LAN sychronisation (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
> Narrowband: 12 channels - 8 for direct calls, 2 for handover connections and 1-2 for air synchronisation
> Wideband (G722): total 5 calls including handover connections
> Up to 3 repeaters per base station for systems smaller than 50 base stations
> Up to 1 repeater for systems up to 127 base stations
> Up to 100 repeaters in a multicell system

INSTALLATION
> Positioning: Wall mounting or 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, µ-law
> Codec negotiation, codec switching

USER INTERFACES
> LED status indication, multicolor
> Reset key
> Web interface

HARDWARE SPECIFICATIONS
> Weight: approx. 306g
> Dimensions: approx. 144x140x35 mmm (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

AP500 OUTDOOR BASE STATION
> AP500 Multi Cell Base Station functionality
> IP55 rated protection
> Flammability Tested against UL746C 5V
> Suitable for outdoor or cold environments
> Impact strength IK 08
> Size is 175x250x75
> Temperature range: -20 to 60 deg Celcius
> Nano coated AP500 Multi Cell PCB
> Ultraviolet light exposure protected
> Water exposure in accordance with UL 746C



PBX COMPLIANCE
> InFormVoice (IFV)
> SV9500, 3C
> SV9100, SL2100

COMPATIBLE HANDSETS
> G277 DECT
> G577(h) DECT
> I766 DECT



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