

Aastra IP-DECT Base Stations

IPBS432 and IPBS442

Flexible and Reliable

The Aastra IP-DECT system is designed to enable voice service, messaging and alarm handling between Aastra cordless DECT handsets and Aastra communications systems via corporate LANs. The IP-DECT system is the optimal solution for any demanding enterprise, providing secure, high quality office communications in dynamic environments. Voice and messaging come together over a single converged network that requires minimal installation space, cabling and maintenance. IP-DECT base stations integrate best-in-class components to ensure that you are equipped with superior voice quality communications, seamless hand-over and all the practical features that ensure first-rate performance.

IP-DECT enables offices to optimize their IT investments. New services and capabilities can be easily implemented so that you can capitalize on the latest technological advances. The

time and resources spent on moving, adding and changing of IP-DECT base stations are greatly reduced thanks to an easy-to-use web GUI, as well as the fact that a converged network solution means fewer components and greatly reduced system costs.

With the hierarchal architecture, the system can be expanded to virtually unlimited sizes while still offering roaming and hand-over for the telephone users. The deployed architecture includes multipoint connections to the serving call manager, providing both capacity/performance and flexibility/redundancy. Remote sites can be configured to behave as autonomous entities, providing local survivability, in case of problems with the network connection to the main site.

Main Features

- ✦ Connection to communications system via LAN
- ✦ DECT GAP/CAP radio interface
- ✦ Uses SIP protocol over IP
- ✦ Supports secure SIP over TLS and SRTP
- ✦ Plug-and-Play installation
- ✦ On-air synchronization
- ✦ Web interface for configuration and software upgrade
- ✦ Power from Ethernet or local power supply
- ✦ Compact lightweight design
- ✦ Easy installation in minimal spaces to flat or curved surfaces
- ✦ External LED status indication
- ✦ Seamless roaming and handover

- ✦ Messaging, alarm and interactive messaging
- ✦ Broadcast messaging
- ✦ Can handle 8 simultaneous calls
- ✦ Can be complemented with outdoor housing

Supported communications systems

- ✦ MX-ONE
- ✦ Aastra 700



IPBS432/IPBS442

Specifications	IPBS432 (internal antennas)	IPBS442 (external antennas)
Physical		
Size (l*w*d) (incl. mounting bracket)	170 × 170 × 38 mm	170 × 170 × 38 mm
Weight	~0.4 kg	~0.4 kg
Material/Color	ABS molded plastic/white	ABS molded plastic/white
External connectors, antennas LAN/ power connectors	RJ45/RJ45	2 × MCX connectors for external antennas RJ45/RJ45
DECT frequencies		
Standard	1880-1900 MHz	1880-1900 MHz
Brazil	1910-1920 MHz	1910-1920 MHz
Latin America	1910-1930 MHz	1910-1930 MHz
North America	1920-1930 MHz	1920-1930 MHz
Power		
Operating voltage	21 to 56 Vdc	21 to 56 Vdc
Power consumption (typical/maximum)	4W/5W (PoE Class 2)	4W/5W (PoE Class 2)
Network		
Ethernet	10/100baseT	10/100baseT
Radio		
RF output power (ERP) EU	19 dBm and 24 dBm	19 dBm and 24 dBm
RF output power (ERP) US	17 dBm and 21,6 dBm	17 dBm and 21,6 dBm
Voice encoding		
Type	G.711 A-law/μ-law (64 kbps) G.723.1 (5.3 kbps) G.729A and AB (16 kbps)	G.711 A-law/μ-law (64 kbps) G.723.1 (5.3 kbps) G.729A and AB (16 kbps)
Environmental		
Operating temperature	-10 °C to +55 °C	-10 °C to +55 °C
Storage temperature	-25 °C to +55 °C	-25 °C to +55 °C
Relative operating humidity	15 to 90 %, non-condensing	15 to 90 %, non-condensing
Relative storage humidity	5 to 95 %, non-condensing	5 to 95 %, non-condensing
Immunity to electromagnetic fields	10 V/m (EN61000-4-3)	10 V/m (EN61000-4-3)
Immunity to ESD	6 kV contact discharge and 8 kV air discharge (EN61000-4-2)	6 kV contact discharge and 8 kV air discharge (EN61000-4-2)
Compliance with European regulations and standards		
EU directives	1999/5/EC (R&TTE)	1999/5/EC (R&TTE)
Radio	EN 301406	EN 301406
Safety	EN 60950-1	EN 60950-1
EMC	EN 301 489-6, EN 301 489-1, EN 60945	EN 301 489-6, EN 301 489-1, EN 60945
Compliance with US and Canadian regulations and standards		
Safety	CSA/UL 60950-1	CSA/UL 60950-1
EMC	FCC part 15 (Class B), RSS-213 and ICES-003	FCC part 15 (Class B), RSS-213 and ICES-003
Compliance with Australian regulations and standards		
Radio	ACA TS028	ACA TS028
Safety	AS/NZS 60950-1	AS/NZS 60950-1