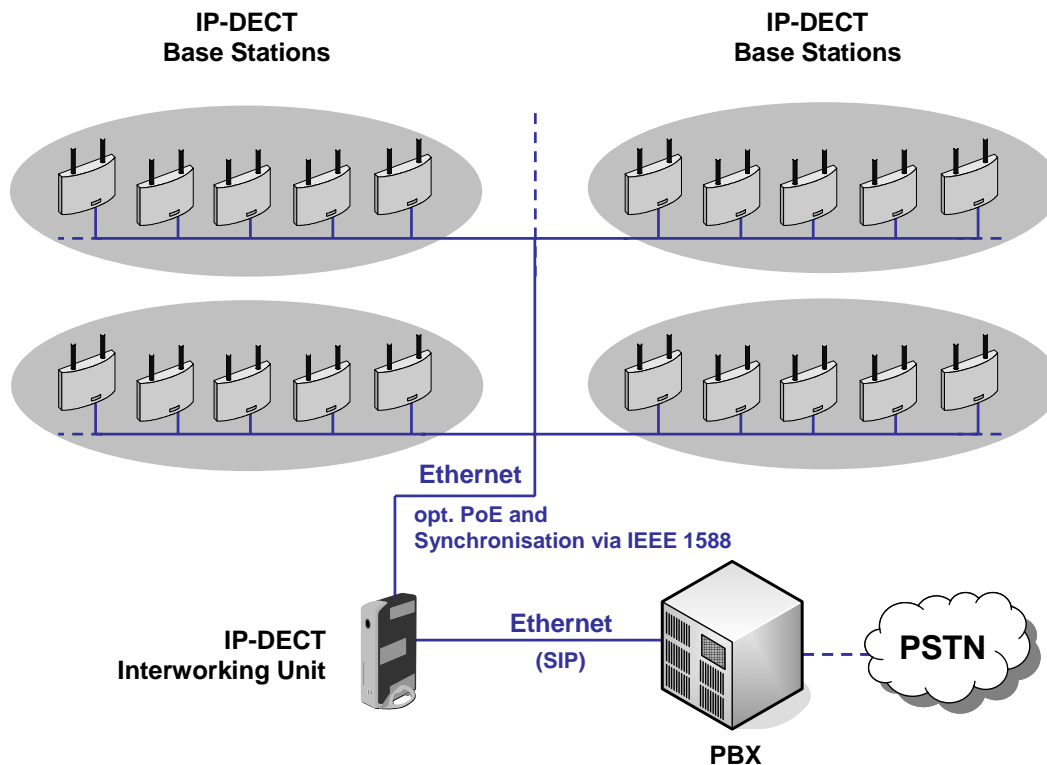


IP-DECT System

DECT Ethernet Base Stations and Interworking Unit



General

The ikon IP-DECT System consists of the IP-DECT Base Stations with Ethernet connection and the IP-DECT Interworking Unit (IWU) for control of the Base Stations and the appropriate mobile Phones. A special cabling between Base Stations and IP-DECT Interworking Unit is not necessary. On the IP-DECT IWU the available functionality of the mobile Phones can be controlled, like e.g. Call Establishment and Disconnection and Implementation of application specific key-controlled Menus e.g. a centralized Phone Book or calling special Functions or Applications on the Server via a mobile Phone.

Furthermore the IP-DECT Interworking Unit manages the dynamic assignment of Mobiles to the connected DECT Base Stations on their own and support Roaming and Handover for the mobile Phones.

The IP-DECT Interworking Unit also implements the transition to VoIP Networks by using the Functionality of the ikon VoIP-CAPI. For the transition to the ISDN Network ikon ISDN boards are available.

Via a SIP connection the IP-DECT System may be very easily integrated in existing solutions like e.g. PC-based PBXs.

IP-DECT System Components

IP-DECT Interworking Unit (IWU)



- Embedded PC (fan less, without Hard disk) running Windows XPe incl. IP-DECT System Software (only VoIP/SIP).
- Server running Windows XP for bigger Systems.

IP-DECT System Software (on Interworking Unit)

- Conversion of the Connections with the Ethernet Base Stations to VoIP (SIP and H.323) or ISDN. The DECT Mobiles act like e.g. SIP User Agents.

- Conversion of the Supplementary Services of the PBX for usage with the DECT mobile Phones.
- Control and Configuration of the Base Stations via IP incl. Registration of the mobile Phones.
- Suitable for deployment with IP-Centrex.
- Control of the Voice Connections and transmission of the Voice data (also DECT/VoIP and DECT/ISDN Interworking).
- Optional customer specific extended functions with/on the mobile Phones.
- Integrated G.726 / G.711 soft Codec for the conversion or direct routing of the G.726 DECT Voice data.

General Features

- Support of Siemens Gigaset DECT Mobiles and of standard GAP compatible Mobiles (with reduced functionality).
- Seamless Handover and Multi-Location (Unique Registration of the mobile Phones).
- Mobile Phones are administered centrally by the Server (Registration of any number of mobile Phones possible).
- Optional extended functions like e.g. display of Caller Number or various text messages or customer specific menus (e.g. for a centralized phone book – depending on the mobile Phones).
- Further Supplementary Services like e.g. Call Transfer depending on the PBX.

IP-DECT Ethernet Base Station

- Low cost DECT Base Station with Ethernet Connection (with the Interworking Unit).
- Integrated DECT Module with 6 DECT Channels (up to 4 parallel Voice connections via DECT, up to 6 in single cell mode).
- Internal Antenna and SMA socket for the connection of an external Antenna.
- Synchronization with other Base Stations via DECT – e.g. for seamless Handover.
- Frequency range configurable (1.80 – 1.93 GHz (for Europe, Australia, Africa, Asia, South America, USA and Canada).
- Transmission of Voice data to the Interworking Unit via Ethernet in G.726 format.
- Power supply with a wall plug transformer (delivery item).



Deliverable IP-DECT Systems

All IP-DECT Systems are complete solutions and may be extended e.g. with additional Base Stations or Users.

- **IP-DECT System 2 and 5:**
2 or 5 IP-DECT Ethernet Base Stations incl. IP-DECT System Software for the connection to the PBX via VoIP, 10 or 25 User licenses.
- **IP-DECT System 20 and 50:**
like System 5, with 20 or 50 IP-DECT Ethernet Base Stations, 100 or 250 User licenses.

ikon Portfolio (Excerpt)

ikon ▲ VoIP-CAPI

ikon ▲ ISDN-CAPI Solutions
(Single- and Multi-PRI for Windows and Linux)

ikon ▲ Professional Services

Brief Description of ikon GmbH

ikon GmbH delivers Products and Development Services with main Focus on Telecommunications. Since its Foundation in 1988 ikon GmbH is a reliable Partner for customer specific Development in the Telecommunication Sector.

Parts of our Product Portfolio are several Protocol Stacks and Software Modules for Technologies like ATM, DECT, ISDN, VoIP, Frame Relay, MPLS, IP-Routing and V5.x.

Trademarks: All trademarks, product and company names used on this data sheet belong to the appropriate manufacturers.