



The Revolutionary Scalable Solution - iServ IP DECT for small and medium enterprise

In today's fast paced business environments; accessibility, quick decision making and the ability to communicate from anywhere in your organization is becoming more critical to business success. If a customer cannot reach the person they are looking for or if an employee can't contact a fellow colleague, customer satisfaction and productivity could suffer as a result.

The i-Serv IP DECT provides an affordable, scalable on-site solution for employee mobility; allowing you to offer a device to your employees that enables them to keep in-touch with colleagues and customers whenever they may be away from their desk, thus maintaining customer satisfaction and employee productivity.

With all the benefits of IP, the i-Serv IP DECT extends the reach of your voice communications without any compromise in voice quality, availability and security.

Why choose the i-Serv IP DECT Solution?

- Cost effective and scalable solution
- Pay as you grow
- Save money compared to a traditional PBX solution
- Mix between traditional DECT and CAT-iq wideband

- audio
- Over the air synchronisation
- Seamless handover
- Power over Ethernet provides a simple installation

Key Features

- DECT GAP / CAP / CAT-iq – Basestation
- Wideband Voice (HDSP) Basic and Extended
- Worldwide Radio power levels / frequency bands
- Scalable system from 1 to 40 bases in same network.
- 200 users (200 handsets registered)
- Power over Ethernet
- Over the Air synchronization
- Support software download to wireless terminals
- Compact design with LED status indication
- Repeater support with seamless handover

Handset Features

- Wideband Audio (G.722)
- 2" TFT display (176x220x262k) with graphical user interface with well-proven graphical MMI with wallpapers
- Polyphonic ringtones
- Phonebook: 200 central and 100 local entries
- GAP and CAT-iq compliant
- Headset connector (3.5mm)
- SW upgrade over-the-air
- Wideband two-way speaker phone mode
- Vibrating ring

Technical Specifications

DECT

- Frequency band: 1880 MHz – 1930 MHz (DECT)
- 1880 – 1900 MHz (10 carriers) Europe
- 1910 – 1930 MHz (10 carriers) Latam
- 1920 – 1930 MHz (5 carriers) US and customized frequency bands.
- Four power levels (14, 17, 20 and 24 dBm)
- Seamless handover using Connection Handover
- Wideband Voice (HDSP) Basic
- Interoperability, Phase I (CAT-iq 1.0)
- Authentication / Encryption of base and handset

Audio

- 10 audio channels using G.726 / G711 codec
- 10 audio channels using G.729 (optional DSP)
- 5 CAT-iq wideband audio channels using G.722
- RFC3711 SRTP

Antennas

- Internal omni-directional antennas
- Support for 2 external antennas (SMA connectors)
- Range: Indoor: 50 m Range: Outdoor: 300 m

Additional features

- Repeaters supported
- Fast antenna diversity switching
- Synchronization via air interface

System

- 200 users (200 handsets registered)
- 40 bases can be connected into one PBX system

Network

- TFTP, HTTP, HTTPS for remote configuration and firmware download
- VLAN
- DHCP options 66 and custom
- Embedded web server for easy configuration

Power supply

- Power over Ethernet (PoE): 36-60 V - IEEE802.3af (Class 0)
- Max power consumption: 5W

Ethernet

- Connector: RJ 45
- Interface to IP network: 10/100 BASE-T IEEE802.3
- IPv6

Mechanics

- Housing: IP50
- Dimensions: 227 x 279 x 39mm (HxWxD)
- Temperature Range: - 5° to + 55°

Other

- LED status indication
- Firmware update

Approvals

- EN301406 (TBR6)

- EN30176 - 2 (TBR10)
- EN60950 - 1 (safety)
- IEC60950 -1
- CSA c-CSA-us or UL60950 - 1
- EN301489 (EMC, ESD)
- RF (EMF, SAR)
- FCC part15D, conducted & radiated
- FCC part 15B
- RSS213

SIP (Session Initiation Protocol)

- SIPS
- RFC2833 In-Band DTMF/Out of band DTMF support
- RFC2976 The SIP INFO method
- RFC3261 compliance
- Digest/basic authentication
- RFC3263, DNS SRV redundant server support
- RFC3264 Offer/answer
- RFC3326 The Reason Header Field for SIP
- RFC3489 STUN
- RFC3515 REFER
- RFC3581 RPORT
- RFC3842, RFC3265 Message Waiting
- Indication, subscription for MWI events
- RFC3892 SIP Referred-By Mechanism
- RFC3960 Early Media and Ringing Tone
- Generation in SIP

