

## Gigaset N300 IP / N300A IP

**High quality DECT-VoIP base station  
with smart online convenience (HDSP, info services)**



**USP:** High quality DECT-VoIP base station with smart online convenience (HDSP, info services)

| Key Benefits for end-users:   | Key Benefits for VoIP Providers:  |
|---|---|
| <ul style="list-style-type: none"> <li>• Plug &amp; play</li> <li>• Stand-alone basis</li> </ul>  | <ul style="list-style-type: none"> <li>• Auto-provisioning</li> <li>• Easy setup</li> </ul> |
| <ul style="list-style-type: none"> <li>• Multi-line: up to 3 parallel calls: 2 VoIP + 1 PSTN calls</li> </ul>   | <ul style="list-style-type: none"> <li>○ Software upgrade / Software Downgrade</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Multi-user: up to 6 handsets &amp; 6 VoIP accounts/phone numbers</li> </ul>  |   |
| <ul style="list-style-type: none"> <li>• Exceptional sound quality (HDSP)<sup>1), 3)</sup></li> </ul>   |   |
| <ul style="list-style-type: none"> <li>• Search in online directories (white and yellow pages)<sup>2)</sup></li> </ul>                                      |   |
| <ul style="list-style-type: none"> <li>• Access to online information (e.g. emails, weather, eBay companion, encyclopedia, etc)<sup>2), 8)</sup></li> </ul> |   |

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|                |  |
|----------------|--|
| Interface:     | a/b (analogue) + IP/Ethernet (IEEE 802.3) for VoIP   |
| Operation:     | PSTN/PBX   |
| Standards:     | DECT, GAP, CAT-iq 1.0, SMS via fixed line or IP (RTP) <sup>2)</sup> , DHCP (Option 60, 114, 120), SIP, RTP, STUN, POP3/POP3S |
| Configuration: | FXS, LAN (RJ45)  |
| System:        | Cordless telephone base (IP and fixed line) for up to 6 handsets   |

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## Basic IP telephony features

- o Expandable phone system with multiline functionality for up to 6 handsets
- o Up to 6 SIP accounts from different providers
- o Assign SIP accounts individually to handsets (send & receive direction specifically)
- o Multi-Line type system (6 x VoIP + 1 x PSTN) allows: Line selection for each call via menu selection
- o Up to 3 calls in parallel:
  - o 2 internet calls + 1 landline calls
- o Easy configuration of internet telephony (VoIP) by wizard and download of provider setting profiles (>200 providers supported)

## Enhanced IP Telephony

- o Embedded SIP VoIP with codecs: G.711, G.722, G.726, G.729AB<sup>6)</sup>
- o Gigaset.net: free of charge calls between Gigaset VoIP phones. Nickname search in Gigaset.net community.
- o Auto-fallback to PSTN, if the phone cannot establish a VoIP connection
- o VoIP supplementary services (device controlled): conference, hold/toggle, call forwarding
- o Call transfer via R key
- o Quality of service<sup>2)</sup>: ToS, Diffserv, configurable DSCP values for SIP and RTP

## IP features and services

### Online directories

- o Online directory and Yellow Page search (multiple directories supported) <sup>2)</sup>.
- o Reverse search (number -> contact).
- o Reverse lookup online (display of caller id from online directory)
- o Link to user defined online directory

### Email

- o New Emails are indicated on the handset<sup>8)</sup> by illuminated MWI-key
- o Read Emails on handset (up to 560 characters) <sup>2), 8)</sup>
- o Delete Emails via handset<sup>2), 8)</sup>.
- o Support of POP3/POP3S Email accounts<sup>2), 8)</sup>

### Applications and Services

- o Easy access to online information on handset<sup>8)</sup> via screensaver and interactive Info Center:
  - o Weather, RSS Feeds, eBay Companion, Translator, Encyclopedia, Horoscope, Biorhythm, Unit Converter<sup>2), 8)</sup>
  - o User defined services<sup>2), 8)</sup>
- o Initiate calls on handset from Info Service pages (click-to-call) <sup>2), 8)</sup>

## Setup and provisioning

- o Quickstart setup software
- o Easy configuration via web server or from handset
- o Administrator friendly configuration via config file
- o Plug and Play Auto-provisioning for retail variant via
  - o MAC address
  - o Auto-configuration code
- o Plug and Play Auto-provisioning for operator/customer variant via:
  - o MAC address
  - o TR069, TR104, TR106, TR111 / part 1 (part 2 on request)

## System and software

- o Firmware update directly from handset, without file handling
- o Firmware downgrade to factory delivery status / last version
- o DHCP client (Option 60, 114, 120)
- o VLAN tagging
- o HTTP Proxy support incl. 1.0 compatibility for chunked messages
- o Increased virus protection thanks to protected operating system
- o Clock synchronization using NTP (Network Time Protocol) server

## Sound quality

- o HDSP™<sup>1)7)</sup> with G.722 codec for exceptional sound (CAT-iq 1.0)

## Convenience – phoning essentials

### Range

- o Indoor range: up to 50 meters
- o Outdoor range: up to 300 meters

### Operation time

- o Talk time: handset dependent
- o Standby time: handset dependent

### Phonebook and dialing

- o Directory transfer between different handsets and between handset and PC
- o Name indication for: incoming calls, outgoing calls, missed calls list, redial list
- o Dialing plan: up to 30 dialing rules (call number, beginning of call number, IP line or PSTN, number blocking)
- o 6 VIP-groups (a specific melody and color can be assigned to each VIP-group)

### Receiving Calls

- o Handset dependent

### Missed Calls

- o Handset dependent
- o

### General additional features

- o Handset dependent

## Display and menu features

### Display

- o Handset dependent

### Menu

- o Handset dependent

## Keypad features

- o Handset dependent

## Messaging functions (SMS)<sup>2)</sup>

- o Send and receive SMS messages via fixed line or IP (RTP)<sup>2)</sup>
- o Easy SMS setup including registration
- o Sending/receiving of SMS with up to 612 characters<sup>2)</sup>
- o Storage of 30 SMS with 90 digits
- o One common + 3 personalized SMS-Inboxes<sup>2)</sup>
- o Comfortable access to SMS-Services (info-channels)<sup>2)</sup>
- o Transmission of e-mails via SMS<sup>2)</sup>
- o Copy of phone numbers from SMS to directory
- o V-Card support: name and number can be taken over to directory

## ECO DECT

- o Up to 60% less energy consumption<sup>3)</sup> thanks to an energy-saving power supply
- o Reduction of transmitting power to almost zero when handset is docked (with only 1 registered handset)
- o ECO Mode - manual reduction of transmitting power by 80%<sup>4)</sup>
- o ECO Mode Plus<sup>5)</sup> for 100% reduction of transmitting power of base station and all registered handsets
- o Variable reduction of transmitting power according to distance between handset and base station

## Accessories

- o Gigaset Home Control (GHC) - protocol for the operation of DECT modules (e.g. HC450 door intercom)
- o Compatible Gigaset handsets : C59H, S79H, SL400H, and SL78H.

## Features with more than one handset

- o 2 internet (VoIP) and 1 fixed-line (PSTN) call in parallel and additionally 1 internal call or AM access simultaneously
- o Phonebook transfer between handsets
- o Ringing assigned to all or selected handsets for internal calls
- o Internal transfer of external calls to another handset with prior consultation call
- o Internet or fixed-line 3-party conference (1 external / 2 internal participants)
- o Two 3-party conferences simultaneously (1 external internet or fixed-line call/2 internal participants each + AM access)

## Answering machine features (only N300A IP)

- o Up to 3 answering machines, not simultaneously
- o Digital recording of voice messages with up to ~30 minutes (combined) recording time (saved against power loss)
- o Listening in to incoming calls possible on all handsets and on desktop base
- o Answering machine comfortable controlled via Navi-key
- o Predefined announcement (plug & play)
  - 3 Individual announcement and
  - 3 advisory announcement (170 Sec.) recordable by user
- o Time-controlled change between announcement and advisory message
- o Recording date and time are announced
- o Recording time adjustable: 1 / 2 / 3 minutes, unlimited
- o Call acceptance adjustable:
  - immediately, automatic, after 10, 18, 30 Sec.
- o Display of new messages at the desktop phone and handset
- o New message notification via SMS to external number containing CLIP, date, time
- o Remote listening of messages via
  - PIN-protected remote playback
  - SMS initiated call-back from AM
- o Live recording of a telephone call

## Fixed net operator features

- o Support of provider features by use of Flash key, \*key and # key
- o FNO specific key
- o Context sensitive menus for net-based operator features (conference etc.)

## Technical data

### Handset

- o Handset dependent<sup>8)</sup>

### External charger

- o Handset dependent

### Base Station

- o Power-saving 230 V switch-mode power supply
- o Connection of up to 6 handsets
- o Paging key on front of base
- o Dimensions (H x W x D in mm) of Base station: 132mm x 105mm x 46mm
- o Weight of Base Station: 120g

### Package contents

- o 1 base station
- o 1 Ethernet cable
- o 1 power supply unit (base)
- o 1 Quick start Guide or CD-ROM
- o 1 Quick start Leaflet

### Color of the base

- o black

### Market Introduction

- o Market launch in January 2011 (UK)

- 1) Support High Definition Sound Performance™ at VoIP base stations and behind Gateways with integrated DECT
- 2) Dependent on country / network/ operator
- 3) Compared to conventional Gigaset base stations
- 4) For all registered handsets – in comparison to when ECO Mode is not activated and to our conventional cordless phones
- 5) When handset is idle or charging and when all registered handsets support ECO Mode Plus
- 6) Codec dynamically activated when the used network requests it (i.e. "on demand")
- 7) With a Gigaset HDSP ready handset
- 8) Only compatible handsets such as the Gigaset C59H, S79H, SL400H, and SL78H.

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