

## Gigaset C610 IP / C610A IP

*High quality VoIP communication solution  
with smart online convenience (HDSP, info services)*



**USP:** High quality VoIP communication solution 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> </ul>	<ul style="list-style-type: none"> <li>• Auto-provisioning for Operator/Customer variant</li> </ul>
<ul style="list-style-type: none"> <li>• Stand-alone basis with attractive handset</li> </ul>	<ul style="list-style-type: none"> <li>• Auto-provisioning for Retail variant</li> </ul>
<ul style="list-style-type: none"> <li>• Large TFT color display (1,8", 128x160 pixel, 65k colors)</li> </ul>	<ul style="list-style-type: none"> <li>• Administrator friendly configuration</li> </ul>
<ul style="list-style-type: none"> <li>• Multi-line: up to 3 parallel calls (2 VoIP calls + 1 PSTN call)</li> </ul>	<ul style="list-style-type: none"> <li>• Software upgrade &amp; software downgrade</li> </ul>
<ul style="list-style-type: none"> <li>• Multi-user (up to 6 handsets &amp; 6 VoIP accounts)</li> </ul>	
<ul style="list-style-type: none"> <li>• Exceptional sound quality (HDSP)<sup>1), 2)</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. weather, eBay, news feeds, etc)<sup>2)</sup></li> </ul>	
<ul style="list-style-type: none"> <li>• Access to social networks Facebook and Twitter</li> </ul>	
<ul style="list-style-type: none"> <li>• Individual programming of ringtones with 6 VIP-groups</li> </ul>	
<ul style="list-style-type: none"> <li>• Social life management with Baby-Alarm, Birthday Reminder, Anonymous Call Silencing</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 (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 PSTN) allows: Line selection for each call via menu selection
- o Up to 3 calls in parallel:
  - o 2 internet calls or
  - o 1 fixed-line call + 2 internet 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 SIP URI Dialing
- 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)<sup>2)</sup>
- o Link to user defined online directory

### Email

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

### Applications and Services

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

## 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

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## Sound quality

- o HDSP™<sup>1)</sup> with G.722 codec for exceptional sound quality (CAT-iq 1.0)
- o Hands free talking with exceptional sound quality – activated by (illuminated) hands free key
- o Adjustable volume of handset sound (3 levels for handset earpiece volume and 5 levels in hands free mode)
- o Ringer melodies with 5-tone adjustable volume settings and on/off function via \* key (long press)
- o 20 selectable ringtones (4 real sounds)
- o Advisory tone (for key confirmation and low battery)
- o HDSP™ ringer melody output via hands free speaker
- o Hearing Aid Compatible (HAC)
- o Mute (via soft-key)
- o Headset connection (mono) via 2,5mm jack connector (headset not included)

## Convenience – phoning essentials

### Range

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

### Operation time

- o Talk time: up to 12 hours
- o Standby time: up to 180 hours

### Phonebook and dialing

- o Directory / addressbook for up to 150 names and numbers
- 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)
- o Jumbo Mode: Bigger dialing font (dialing preparation and incoming call)
- o Dial preparation (input of phone numbers before connecting) with correction possibility
- o Redialing of the 20 last different numbers
- o User-programmable speed-dial shortcuts using keys 2-9, 0
- o Dialing: DTMF, Pulse, Flash (programmable)
- o Support of local area codes
- o Automatic prefix dialing or provider selection

## Receiving Calls

- o Caller indication displayed via CLIP and CNIP displayed<sup>2)</sup>
- o Display and send key lighted
- o Ringer animation in display
- o Special color and ringtone for each VIP-group
- o Selectable ringer melodies
  - 4 real sounds (for handset only)
  - 9 polyphonic (for handset only)
  - 7 standard melodies
  - 5 loudness levels + off + crescendo
- o Individual ringer melody for internal calls
- o Number specific ringer tone selectable
- o **No disturbance because of selectable automatic Day / Night switch of ringer volume of handset**

## Missed Calls

- o Comfortable access to missed calls list by dedicated, illuminated MWI-key
- o List showing up to 30 missed calls saving calls with caller indication (CLIP / CNIP - base station required) and time<sup>2)</sup>
- o Missed call notification via SMS to external number<sup>2)</sup>

## General additional features

- o Plug & Play (unpack, connect the phone and conduct a call)
- o Birthday reminder
- o Modern handset design with convenient size and proportions
- o Valuable surface and colors
- o Up to date design language
- o Comfortable dial and text editors
- o Alarm clock with snooze function
- o Baby-Alarm / room monitoring (**selectable talk-back option**)
- o **Direct call functionality**
- o Date and time functions are protected against power failure
- o Next generation User interface with 1,8" TFT
- o Editable internal handset name
- o Support of Netprovider features via menu<sup>2)</sup>
- o Base unit and charger wall mountable
- o Internal antennas

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## Display and menu features

### Display

- o Illuminated graphical color display (128x160 pixel, 6 lines, 65k color)
- o Display illumination: amber
- o Enhanced user interface with simple mode and expert mode

### Standby

- o Display of online information, digital clock or color picture as screensaver (selectable and settable by user)

### In idle

- o Display of date and time
- o Display of state of battery life in different colors, handset name and signal strength
- o Info-ticker for online information
- o Soft keys for quick selection of functions

### While conducting a call

- o Display of call duration in talk mode

### Menu

- o Convenient menu for easy use in up to 19 languages (variable according to geographical region)
- o Simple operation via colored icons and text based menu and soft keys

## Keypad features

- o New ergonomic keypad in high quality material (polydome technology)
- o Precise keypad with hardcaps
- o 12 numeric keys plus 9 function
- o 5 way Navikey
- o Illuminated keypad including navigation area
- o Keypad illumination: amber
- o Illuminated hands free talking key (red), send key and dedicated illuminated message key (red)
- o Keypad protection on/off via # key (long press)
- o Ringer tones on/off via \* key
- o Flash key (R) with long press for pause (P)

## 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 Headset via 2,5mm jack connector
- o Gigaset Home Control (GHC) - protocol for the operation of DECT modules (e.g. HC450 door intercom)

## Features with more than one handset

- o 2 internet and 1 fixed-line call in parallel (VoIP and PSTN) 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 C600A 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.)

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## Technical data

### Handset

- o Standby time: up to 180 hours
- o Talk time: up to 12 hours
- o Battery: 2 x AAA (NiHM)
- o Charging time: < 8h
- o Indoor range: up to 50 meters
- o Outdoor range: up to 300 meters
- o Weight: 114g (incl. batteries)
- o Dimensions H x W x D  
Handset: 149mm x 49mm x 28mm

### External charger

- o Weight: 33g
- o Dimensions H x W x D
- o Charger: 29mm x 71mm x 76mm

### 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) Base station: 132mm x 105mm x 46mm

- o Weight base station: 120g

### Package contents

- o 1 handset
- o 1 belt clip
- o 1 handset charger
- o 2 standard AAA batteries (NiHM)
- o 1 base station
- o 1 telephone cord
- o 1 Ethernet cable
- o 2 power supply units (base and charger)
- o 1 Quick start Guide or CD-ROM
- o 1 Quick start Leaflet

### Color

- o Shiny black

### Market Introduction

- o Market launch in April 2011 (Germany)

- 1) Support High Definition Sound Performance™ at VoIP base stations and behind Gateways with integrated DECT
- 2) Dependent on country / network/ operator / provider
- 3) Compared to conventional Gigaset base stations
- 4) For all registered handsets – in comparison to when ECO Mode is not activated and to Gigaset 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")

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## History of Changes

Version	Date	Author(s)	Remake
1.0	24.01.2011	Bourdon	Created (based on the datasheet C590/595 IP V2.0)