

## Saturn VOIP+ISDN/PSTN AM (with DECT) Gigaset DX800A all in one

„High-End Desktop Phone Family with 3,5  
“ - TFT- colour display and modern high-  
quality design”

### USP:

- High-End Desktop Phone

### Key Benefits:

- Outstanding High-Quality Design
- Large (3,5”) TFT-Colour Display
- Full Dial Keypad and Sound in HSP-Quality

Standards: DECT, GAP, F-SMS, Bluetooth, Euro-ISDN/PSTN, Ethernet

Configuration: **Connection of up to 2 external ISDN(2 B-channels)/1 PSTN lines and up to 4 external IP lines simultaneously**

System: Up to 6 handsets can be registered



Interface: a/b (analogue) or Point-to-multipoint S0 (DSS1) plus  
Ethernet for VoIP

link to GSM via Bluetooth

### Sound quality

- o Wideband capable based on Cat-IQ 1.0
- o Certification for Cat-IQ 1.0 (vb)
- o **Internal calls always in full wideband quality**
- o External calls via VoIP support Wideband
- o Nearly Full-Duplex handsfree in brilliant quality (80 ccm sound reflex box in desktop base)
  - activated by illuminated handsfree key, volume adjustable (5 volume steps)
- o Adjustable volume of corded handset sound (3 levels)
- o Headset connection via Bluetooth or 2,5mm jack connector
- o Ringtones and music-on hold in full wideband quality
- o Polyphonic ringer-melodies and download of real-sounds in best quality possible
- o Ringer melodies with 4-steps adjustable volume settings plus crescendo
- o Ringer melody output via handsfree speaker
- o Mute (via separate hardkey)
- o Earpiece: Wideband capable
- o Earpiece: HAC (hearing aide compatible)

### Convenience – phoning essentials

#### Phonebook and dialing

- o **Address book with 1000 vCard entries**, each containing 7 fields - name, surname, 3 numbers, e-mail and anniversary
- o Anniversary day and time can be stored for each directory entry (vCard). Assign individual ring tone melody and picture for picture clip
- o VIP-entries (a specific melody and predefined picture can be assigned to each directory entry)
- o **Auto-accelerating navigation through local phonebook with full text search**
- o Extra large digits displayed for dial preparation
- 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
- o Dialing: tone, pulse
- o Automatic redial functionality
- o 6 Configurable function keys: can be set as call by call key, pre-programmable with service numbers, line-selection. R-key)
- o Full Intercom functionality (internal calls)

#### Receiving Calls

- o Caller indication displayed via CLIP and CNIP displayed

- o Picture clip for individual callers or VIP groups (xx pictures pre-stored)
- o Display and handsfree key lighted
- o Ringer melody output
- o Polyphonic ringer melodies (16 chords): xx predefined
- o Standard ringer melodies: 10 predefined
- o Selectable ringer melody for internal calls
- o Number (MSN)-specific ringer tone selectable

#### Missed Calls

- o Display signaling missed calls
- o Comfortable access to missed calls list by dedicated, illuminated message key
- o List showing up to 30 missed calls saving calls with caller indication (CLIP) and time

#### General additional features

- o Dynamic and elegant high-quality design with modern base design
- o Plug & Play (unpack, connect the phone and conduct a call)
- o Optimized Configuration via improved Installations assistants for ISDN and VoIP settings
- o Automatic SMS registration
- o Comfortable time and date setting (initial installation; buffered in case of power loss); date and time automatically **synchronized via D-Channel** after first call
- o Comfortable dial and text editors
- o Free programmable Soft key (e.g. Quick dial, Call-by-call, Alarm, Calendar)
- o Red illuminated MWI and Handsfree key
- o 5 configurable keys (Flash-key (R), Pause predefined)
- o 5-way Navkey
- o In call status you get automatically recall softkey
- o In connect status you get automatically
  - alternation between 2 lines or
  - conference
- o In conference status you get separate function
- o Mute-functionality with extra Mute-key
- o Calendar with month view, visualization, administration of events and anniversaries
- o Event-Scheduler / anniversary:
  - in total up to 30 events can be stored with text
  - user can select type from list or edit title
  - melody for signaling settable
  - signaling with type related icon

# SIEMENS

- o Alarm clock functionality with snooze function  
- set occurrence Monday-Friday or. daily
- o Editable internal basestation name

## Display and menu features

### Display

- o Illuminated full graphical display (7 lines) , 320 x 240 pixel, 3,5 " TFT display , brilliant Color (>=65k color)
- o Night Mode: Display of Desktop can be switched off time-controlled (Power saving and non-disturbing at night)

### Standby

- o Display of digital clock or color picture as screensaver (settable by user)
- o Slide show on display (time-controlled)

### In idle

- o Date and time, state of charging, signal strength, ECO-mode and Bluetooth, basestation name displayed
- o Softkeys for prompt executing of functions

### While conducting a call

- o Display of call duration or units/costs (AOC-D, AOC-E, AOC-S is generally supported)

### Next Generation Graphical Interface

- o Comfortable menu with colored icons and text for easy use in 20 display languages (tbd)
- o Icon based menu
- o Direct access to call-lists (all/misssed/accepted/outgoing)
- o Optimized picture clip for desktop display
- o Improved reaction speed on menu due to high-performing processor
- o Night mode: time-controlled ringer off

## Messaging functions (SMS)

- o Sending/receiving of SMS with up to 640 characters<sup>2)</sup>
- o Storage of up to 63 SMS with 160 digits ??
- o Transmission of e-mails via SMS (separate directory for E-Mail-Addresses)
- o Copy of telephone numbers from SMS to directory
- o SMS protocol 1
- o MSN-specific SMS-Inbox

## ECO DECT

- o **DECT is switched off, if no handset is registered**
- o **Non-Disturb Mode: Time-controlled Switch – Off of DECT**
- o ECO Mode - manual reduction of transmitting power by 80%
- o ECO Mode Plus 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
- o Up to 60% less energy consumption<sup>3)</sup> thanks to an energy-saving power supply
- o **FXS Port can be switched off (power save if not needed)**
- o **Night Mode: Display of Desktop can be switched off time-controlled (Power saving and non-disturbing at night)**

## ISDN features

- o Administration of up to 10 MSNs (auto MSN recognition)
- o Date/time with synchronizing via ISDN
- o Call number display (CLIP, COLP)

- o Restriction of call number display (CLIR, COLR)
- o Call hold/consultation/toggle (HOLD)
- o Three-party conference (3PTY)
- o Call waiting, accept/reject (CW)
- o Call forwarding (CF)
- o External callback on busy/no answer)
- o (CCBS,CCNR)
- o Malicious call identification (MCID)
- o Advice of charge (AOC-D, -E, -S) (display of messages)
- o Connection in the exchange (ECT)
- o Busy-on-Busy switchable system-wide
- o Automatic switch from Keypad to DTMF-signaling

## Connectivity (via Bluetooth and Ethernet)

### PC connection via Ethernet and „Gigaset QuickSync for Ethernet“

- o Direct Connection to PC via Ethernet possible
- o Addressbook Synchronization with desktop phone book (1000 Entries !)  
- Synchronization of directory entries with Microsoft Outlook 2003/2007/Express and Vista Contacts
- o Download of individual ringer-tones (e.g. in MP3, WMV (Microsoft), AAC (Apple iPod™)-format) in wideband quality (automatically converted to G.722-format)
- o Download of pictures for screensaver / slideshow and picture clips
- o CTI-Interface with Outlook (and Vista Contacts, XP-Addressbook)  
- dialing direct from outlook contacts on PC via 1-click interface  
- displaying the contact on PC while phone rings (if entry is in contact list)

### Bluetooth

- o 2 Bluetooth connections supported in parallel (bluetooth headset and OBEX transfer/or PC connection)
- o Supported Bluetooth Profiles  
- serial  
- headset  
- handsfree (for headset)  
- OBEX with vCard exchange of addresses
- o GSM connection (Link-to-Mobile)  
Several Mobile phones supported (1-5 mobile phones , automatic switching to best or default mobile phone)
- o Outgoing-Call via GSM-connection from any handset or desktop base
- o Incoming call from mobile phone is signalled and transfered (configurable to any handset or desktop base ring: yes or no on mobile call)
- o vCard transfer to mobile phones via Bluetooth

### WEB-Interface for easy configuration and setup

- o Easy configuration of lines and numbers via Web-Interface
- o Save / load of phonebooks (of desktop phone and all connected handsets)
- o Save / load of Configuration settings from/to PC
- o Dialling-Plan configurable via Web-Interface (rules to use different linetypes for different numbers)
- o Call-Lists shown on WebUI
- o Language download for WebServer
- o Configuration of provider profiles via WEB Server

## Ethernet connection for all Saturn Variants

- o 2 Ethernet connectors with integrated 100 Mbit switch (PC can be connected via Base, only one Ethernet port nec.)
- o 1 Ethernet port for analogue and ISDN version
- o Simple: automatic setting of date and time via NTP (parallel to via D-channel in ISDN or CLIP-info in analogue)

- o Online-Phonebook access
  - Search in Public Directory & Yellow Pages
  - Reverse search functionality (i.e. search by number)
  - Auto-Lookup functionality (i.e. display of caller's ID)
    - display name, address, mobile number of caller when ringing
  - Country specific providers selectable via web-interface
- o Network based private phonebook
- o Email – notification subject / header / time & date / begin of message
  - Direct access to POP3/IMAP accounts without PC (phone is always on)
  - Email content reading on PC (up to first 560 chars)
  - New Emails signaled by illuminated MWI-key with comfortable access to message list:
- o Automatic search for available firmware updates
- o Firmware Update directly from base without file handling
- o Support of further WEB-based services (RAP1.0 and 1.1) e.g. weather, RSS feeds, Ebay
- o DHCP client (or static IP address)

- o Remote listening of messages via
  - PIN-protected remote playback
  - SMS initiated call-back from AM
- o Live recording of a telephone call

## IP Net Features

- o Up to 4 VoIP-Calls in parallel at the same time
- o Block-Dialing and (simulated) „step-by-step dialing“ for all calls
- o Multiline with up to 6 SIP accounts:
  - Configure up to 6 SIP accounts from different providers
  - Assign accounts individually to handsets (send & receive direction specifically)
- o VoIP support (embedded SIP VoIP, G711, G722, G726, G729AB)
- o Quality of service\*: ToS, Diffserv (dependent on country, network and provider)
- o Operation behind router providing LAN connection
- o VoIP supplementary services (device controlled):
  - conference, hold/toggle, call forwarding
- o Autoprovisioning via MAC address (TR069) or code for auto configuration including SIP username and password (on request) Easy selection of provider profiles from HS
- o Configuration of system via WEB Server
- o Configuration of provider profiles via WEB Server
- o Gigaset.net VoIP service:
  - free of charge calls between Gigaset VoIP phones
  - zero configuration
  - Gigaset.net directory

## Accessories

- o **Headset via Bluetooth connection or 2,5mm jack connector** (headset not included)
- o Gigaset Home Control (GHC) – protocol for the operation of HC 450 door interface
- o 1 Separate analogue FSX-port for connecting analogue FAXes
- o Easy to use User-Interface (no setting of ISDN-line type required)
- o Support of analog Fax T.30 up to 14.4 kHz

## Features with additional handset

- o Support of SoHo Requirements:
  - Up to 4 lines available in parallel for 4 calls at the same time**
  - (1 analogue + 3 VoIP, 2 ISDN lines + 2 VoIP, up to 4 VoIP-lines)
- o Future Proof Flexible System for analogue or ISDN interface (setable during installation) and VoIP-Calls in parallel
- o Hybrid Calls possible (menu base easy selection of line type used)
- o Phonebook transfer between handsets
- o Internal transfer of external calls to another handset with prior consultation call
- o 3 party conference (1 external / 2 internal participants) via internal recall or call-waiting
- o Collective ringing on incoming external calls

## Email notification /subject/header/ time & date / begin of message

- o Direct access to POP3 accounts without PC
- o Email content reading on PC
- o New Emails signaled by illuminated MWI-key with comfortable access to message list: Information about sender, time & date, subject
  - Direct access to POP3/IMAP accounts without PC (phone is always on)
  - Email content reading on PC (up to first 560 chars)
  - New Emails signaled by illuminated MWI-key with comfortable access to message list

## Answering machine features

- o Up to 3 answering machines, not simultaneously
- o Digital recording of voice messages with **up to 55 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 / 3 separate AM keys and large colour display
- 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, 20, 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

## Future proof SW architecture

- o Linux based operating system
- o Large (automatically updateable) Flash with 32 Mbyte
- o Allows future improvement due to huge available free/open software
- o Multi-Linetype system (analog/ISDN + VoIP \*1a) \*1b)) allows: Line Selection for each call via function key on desktop phone or on any handset via Menu-Selection (alternatively : default line-type)

## Fixed net operator features

- o Support of supplementary services (provider features)
  - via soft key and menu (e.g. automatic call back, call forwarding)
  - by the use of R-button, \*-button and #-button
- o Configurable Key can be set as Call by call button with specific provider numbers in the production

## Technical data

### Base Station

- o Connection of 1 external ISDN line (2 B-channels)
- o Connection port for fax
- o 2 xEthernet ports for PC connection and firmware update
- o Connection of up to 6 handsets
- o Dimensions: H x W x L
- o Desktop Phone: 108 mm x 263 mm x 168 mm
- o DX800A(base without Handset ) 631 g
- o Handset (with integrated weight) 147 g

### Package contents

- o 1 Comfort Base station
- o 1 Power supply unit
- o 1 Telephone cord, 1 Ethernet cable
- o 1 User manual (short)

- o 1 CD-ROM with PC SW Gigaset QuickSync and full user manual

### Color

- o silver black

### Market Introduction

- o Market launch in September 2010 (Germany)  
(M3 in August 2010)

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