HiPath Cordless Office for the HiPath 500 and HiPath 3000 Series

HiPath Cordless Office is the integrated cordless solution in the HiPath 500 and HiPath 3000 series for cordless communication with convenient user and system features.

Providing employees with cordless phones permits direct communication regardless of location, presenting the perfect solution for immediate availability and quick decision-making and bringing both administrative and economic advantages.

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The HiPath Cordless Office system architecture is highly flexible as regards

- number of subscribers,
- subscriber density,
- coverage,
- extensibility and the provision of new features with up-to-date telephones.

The system uses the worldwide digital radio transmission standard DECT (Digital Enhanced Cordless Telecommunication), operating in a protected frequency band, and it supports an open interface according to the GAP (Generic Access Profile) standard.

HiPath Cordless Office also lays the foundation for high mobility and constant availability, even across different company sites and on wide-ranging company campuses. HiPath Cordless Office thus offers a high degree of investment protection with future-oriented functions and features based on the modern DECT and GAP standards.

System Features

Feature handsets

A high degree of flexibility and mobility makes the Gigaset S professional family (for office environments) and the Gigaset M professional family (for industrial environments) firm favorites amongst cordless telephones. They offer excellent digital speech quality, a high degree of immunity to eavesdropping and a long range (up to 50 meters indoors and up to 300 meters outdoors).

Not only are investment and operating costs low; the handsets also feature easy user prompting and a 4-line display with menu selection keys.
Another plus is that access to the entire cordless system is protected: "third-party" cordless phone users are prevented from gaining unauthorized access as the handsets are logged on to the system centrally.

The HiPath Cordless Office feature handsets allow users to conduct phone calls throughout the radio-provisioned area. With the feature handsets it is possible to use the HiPath 500 and HiPath 3000 communication system's features while moving around the grounds (toggle, consultation, conference).

Base stations

The base stations form the radio cells and conduct communication with the cordless terminals (feature handsets). They are connected with 1 to 3 system-specific $U_{P0/E}$ interfaces to the radio switch or with 1 $U_{P0/E}$ interface directly to the system control. The type of connection depends on the system variant. This allows up to 12 calls (when 3 $U_{P0/E}$ are connected) to be conducted simultaneously via one base station.

To ensure that they are optimally sited for covering the building or grounds, the precise locations for the base stations must be ascertained using radio coverage measurements during project planning. Specialized antennas can be used for increased radio coverage. The base stations can be encased to protect them from the weather.

System connection

Depending on the system capacity stage, handsets are connected to the system either via a radio switch or directly to the system control. User data administration for the entire cordless system is performed directly by the system software, giving the advantage of simple system management.

A different number of base stations and handsets is supported (see Technical data), again depending on the HiPath system capacity stage.
Depending on its configuration, each $U_{P0/E}$ interface can provide 2 to 4 voice channels. The HiPath Cordless system can be extended from one directly connected base station with two simultaneous calls to 64 base stations connected via 4 radio switches and with 250 subscribers.
A maximum of 7 base stations and 28 connections are possible in the case of a direct connection.
(For larger-scale upgrades, the base stations and phones can be migrated to the HiPath Cordless Enterprise system of HiPath 4000.)

Multi-cell technology

The radio coverage required in the building or on company grounds is achieved by means of multi-cell technology. The radio cells of the base stations installed in the company overlap so that calls throughout the cordless system domain can be set up and conducted smoothly while users are moving around (roaming and handover).

System networking

With networked systems, accessibility across system boundaries is also provided by the system with additional functions. The accessibility range can be further extended with the cross-system roaming function.

Cross-system roaming

In a system network with up to 16 systems, the cross-system roaming function supports unlimited accessibility on the same internal phone number. Connections between the systems using the Siemens specific CorNet N protocol are a requirement for this. Following change-over to another location, the handset logs on here using its home identification and directory number. This information is transferred over the digital connection to the home system so it knows where the user is located and can automatically forward incoming calls over the system connection.

Gigaset Handsets

Gigaset S2 professional

Features
- Handset lock by means of four-digit PIN
- Handset can be charged in disabled mode (PIN set)
- Illuminated hands-free key
- Illuminated MWI key
  - Simple access to messages list
  - Notification of new messages
- Telephone book for up to 200 numbers
  - Predictive text for telephone book
- Illuminated 5-line graphical display
  - Status display of battery charge and field strength
- Headset connection via mini Lumberg
- Ring tone can be set for internal and external calls
- Three-level audio volume adjustment
- Visual call signaling (LED hands-free key)

Handset operating times
Standby up to 150 hours
Talk time up to 10 hours

Dimensions (L x W x D in mm)
141 x 51 x 28

Weight
Weight including batteries approx. 110g

Color: Dark blue

Gigaset S2 professional charger
Charging time for NiCd batteries
8 to 9 hours
Power supply
220/230 V AC plug-in power supply unit
110 V AC plug-in power supply unit

Gigaset SL2 professional

Feature set similar to Gigaset S2 professional. Extras include:
- Functions in the same way as a corded telephone
- Supports system telephone book
- PC interface via cable or Bluetooth
- DPS (DECT Positioning System)
- Enhanced features with HiPath DAKS
- Multi-cell capability
- Encrypted voice transfer
- Multi-DECT system capability

Handset operating times
Standby > 200 hours
Talk time > 10 hours

Dimensions (L x W x D in mm)
Handset: 130 x 47 x 22
Charging unit: 68 x 68 x 22

Weight
Handset incl. battery approx. 110g

Color
Black

Power supply: handset
750 mAh Lithium-Ion battery

Gigaset SL2 professional charger
Charging time for NiCd batteries < 6 hours

Power supply: charger
220/230 V AC plug-in power supply unit
110 V AC plug-in power supply unit

Gigaset M2 professional Industrial Handset

Feature set similar to Gigaset S2 professional. Extras include:
- Housing protection class IP 65
  - Splash-proof
  - Dustproof
- Shock- and shatterproof housing
- Improved resistance against interference
- Illuminated keypad
- Voice acoustics for loud environments

Handset operating times
Standby > 200 hours
Talk time > 10 hours

Dimensions (L x W x D in mm)
Handset: 167 x 56 x 35
Charging unit: 99 x 78 x 46

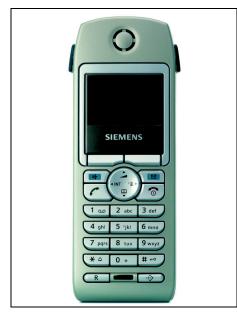**Weight**
Handset incl. battery approx. 176 g

Color
Black

Power supply: handset
1000 mAh Li-Ion battery pack

Gigaset SL2 professional charger
Charging time for NiCd batteries < 6 hours

Power supply: charger
220/230 V AC plug-in power supply unit
110 V AC plug-in power supply unit

Technical Data

System data

Radio interface standard: DECT (ETS 300 175), GAP (ETS 300 444)

Frequency band:
1,880 MHz to 1,900 MHz
1,910 MHz to 1,930 MHz

Number of carriers: 10 (switchable)

12 full duplex channels

Voice encoding: 32 Kbps ADPCM

CE Standard (Safety)

System configuration

Integrated/can be integrated in

- HiPath 520
  Direct connection: Maximum of 1 base station with up to 2 simultaneous call connections and up to 8 handsets

- HiPath 540
  Direct connection: Maximum of 3 base stations with 2 simultaneous call connections and up to 8 handsets

- HiPath 580
  Direct connection: Maximum of 3 base stations with 2 simultaneous calls and up to 16 handsets

- HiPath 3300/3350
  Direct connection: Maximum of 3 base stations each with 2 to 4 call connections and up to 16 handsets

- HiPath 3500/3550
  Direct connection: Maximum of 7 base stations each with 4 call connections and up to 32 handsets

- HiPath 3700/3750/3800
  Up to 4 radio switches per 16 interfaces Maximum of 64 base stations (up to 3 interfaces) with 4 to 12 simultaneous call connections and up to 250 handsets (released on a country-specific basis)

Radio switch

for connecting to the DECT base station (SLC16N HiPath 37x0 / SLCN HiPath 3800)

- Number of line interfaces: 16

- Type: 2 $U_{P0/E}$ wires for standard telephone line or separate STP-LAN cabling

- Number of channels per line interface: Four 32 Kbps voice channels

- Coverage:
  – up to 500 m for direct connection
  – Remaining HiPath 3000 series up to 1000 m

DECT base stations

EMC according to EN 55024/EN 55022/EN 301406
Radio interface according to EN 301406 (1TBR6)

Line interface
- Type: 2 $U_{P0/E}$ wires

- Number of channels: Two/four 32 Kbps B channels

- Number of line interfaces: 3 for BS4

- Power supply voltage:
  42V to 54V
  ($U_{xP0/E}$ nominal voltage = 48V)

BS4 casing (3 x $U_{P0/E}$)
- Dimensions (L x W x D in mm):
  202 x 172 x 43
  (plus 44 mm for antennas)

- Weight: 500g

- Power consumption: max. 3W

Indoor temperature range:
in accordance with IEC721-3-3 Class 3K3 standard
-5 °C up to +50 °C;
max. 85% humidity or 25g/m3

Outdoor temperature range (BS in the external casing):
in accordance with IEC721-3-3 Class 4K2 standard
-20 °C up to +50 °C;
max. humidity 85%

External casing for base station

- Dimensions (L x W x D in mm):
  296 x 256 x 90

- Weight: 960g

Our strengths - Your advantages

Siemens is known worldwide as a trailblazer in the advancement of information and communication technologies. No other company offers such a comprehensive and innovative portfolio.

Regardless of which communication technology you are using today – or want to use tomorrow – Siemens offers you the right solution.

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