

SIEMENS

Hicom cordless EM The Cordless Solution for Hicom 150 E

Hicom® cordless EM is the integrated cordless solution in the Hicom 150 E system for cordless communication with convenient station and system features.

Providing employees with cordless telephones for bridging distances using radio channels is extremely conducive to optimum availability and short decision-making channels. This gives rise to organizational and economic advantages.

The flexible system architecture and digital radio communications standards

- DECT (Digital Enhanced Cordless Telecommunications) = the world renowned radio standard for digital communications with optimum voice quality with a high degree of protection against listening in and
- GAP (Generic Access Profile) = standard for the use of handsets on systems from different manufacturers

form the basis for a high degree of mobility and permanent availability within the company and extensive grounds and thus offer a high degree of protection on the investment and functions that take future needs into account.

On the basis of up-to-date DECT and GAP standards, Hicom cordless EM offers the user a range of convenient features:

- Convenient handsets from the tried and tested Gigaset 2000 family
- Multi-cell technology
- Availability of features of the Hicom 150 E system
- Multiple use of handsets



System Features

Gigaset 2000C/Gigaset 2000C pocket/Gigaset active/Gigaset 2000T feature handsets

A high degree of flexibility and mobility makes the "Gigaset 2000C, 2000C pocket, Gigaset active and 2000T" handsets one of the most popular cordless telephones. They are distinguished by excellent voice quality, high degree of protection against listening in and high ranges (in buildings up to 50 meters and outside up to 300 meters). Not only are investment and operating costs low, but they have a simple user prompting system and four-line display with menu selection keys.

Another plus is that access to the entire cordless system is protected: central registration of the handsets in the system prevents unauthorized access of "third-party" cordless telephones.

Using the Hicom cordless EM feature handsets, it is possible to conduct telephone calls throughout the entire area radio area. The feature handsets allow the features of the communication system Hicom 150 E to be used 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 up to two system-specific $U_{P0/E}$ interfaces to the radio switching station within the communications system. This means that up to eight calls can be conducted at the same time over one base station.

The precise location of the base station must be determined using radio-technology measurements and project planning in order to achieve the best location for the radio network to cover the building or the grounds.

To protect them from the weather, the base stations can be fitted with a heatable external housing.

Radio switching station

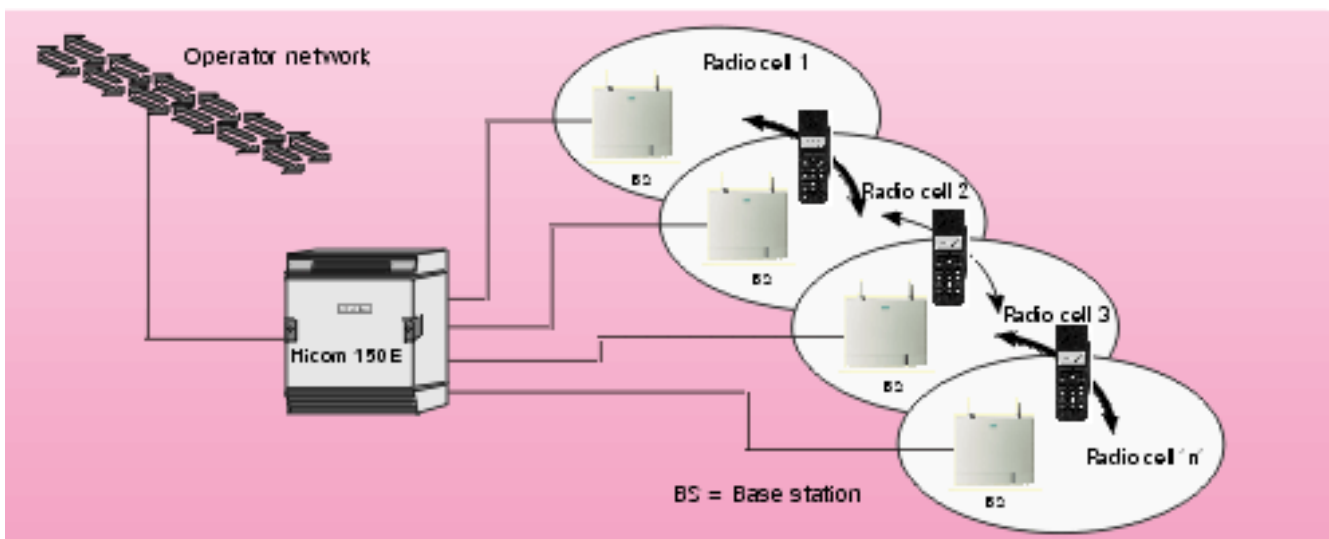
The radio switching station is a system module that is integrated into Hicom 150 E and that takes control of the entire cordless system. Central station data management is carried out via the Hicom system, with the advantage that system administration is kept simple.

The radio exchange module makes 16 $U_{P0/E}$ interfaces available. Therefore, up to 16 base stations can be connected to the radio exchange module depending on the number of $U_{P0/E}$ interfaces assigned per base station.

Each of the $U_{P0/E}$ interfaces makes available four voice channels in the process so that up to 64 calls can be conducted at the same time in the Cordless system.

Multi-cell technology

The radio coverage required in the building or the company grounds is achieved by means of multi-cell technology. In this process, the radio cells of the base stations installed in the company overlap so that calls in the entire area of the Cordless system can be set up and conducted seamlessly while the user is moving in around (roaming and handover).



Feature Telephones

Gigaset 2000C feature handset

Features

- Illuminated, 4-line graphic display with symbols for displaying operating states
- Dialog-controlled user prompting for local functions using an integrated menu in seven languages by means of display keys
- Integrated local telephone book for up to 100 entries
- Access to features of the Hicom 150 E system by means of plain text in the display
- Ringer volume, ringer tone and audio volume can be set individually
- Long call/standby times
- Can be registered at up to six DECT/GAP systems (e.g. Hicom cordless E or Gigaset) as a mobile unit

Call / standby times (in hours)

| | |
|-----------------|--------------|
| NiCd | up to 7/70 |
| NiMH (1100 mAh) | up to 11/110 |
| NiMH (1300 mAh) | up to 13/130 |

Measurements (L x B x D in mm)

160 x 55 x 25

Weight with batteries 165 g

Operating temperature 0 °C to +45 °C

Display full graphics LCD module

Telephone settings

Ringer volume (7 levels)

Ringer tone (10 levels)

Audio volume (3 levels)



Gigaset active industrial handset

Provides the same features as Gigaset 2000C, but with an enhanced functionality:

- Shockproof, unbreakable case
- Sturdy retaining clip with swivel joint
- High-level noise immunity
- Protection against splashing and spray water
- Explosion protection
- Keypad can also be operated with protective gloves
- Acoustics optimized to suit noise-intensive environments
- Connection facility for headset
- Compatible with 2000 L charging unit

Weight approx. 160 g



Gigaset 2000L and 2000L pocket charging unit

Charging time for NiCd batteries

4 to 5 hours (in handset)
24 hours (in battery compartment)

Charging time for NiMH batteries (1100 mAh)

8 to 9 hours (in handset)
40 hours (in battery compartment)

Power supply

Plug-in PSU 220/230 V AC

Plug-in PSU 110 V AC

Measurements (L x B x D in mm)

Gigaset 2000L: 85 x 76 x 77

Gigaset 2000L pocket: 85 x 77 x 80



Gigaset 2000C pocket feature handset

Features as for Gigaset 2000C

Measurements (L x B x D in mm)

137 x 43 x 20

Weight with batteries 125 g

Call / standby time

9/90 hours (with NiMH batteries)



Gigaset 2000H headset

Earpiece (sensitivity)

14 dB ± 3 dB at 1KHz

Microphone (sensitivity)

-38 dBV Rel 1 Pa ± 3dB

Weight 18 g

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Technical Data

System data

Radio interface standard
DECT, GAP

Frequency
1880 MHz to 1900 MHz

Number of carriers 10

Bandwidth of carriers 1,728 MHz

Transmission
MC (Multiple Carrier)
TDMA (Time Division Multiple Access)
TDD (Time Division Duplexing)

TDMA frame 10 ms

TDMA time slot 0.417 ms

Number of time slots per frame
24 (12 full-duplex channels)

Absolute number of channels
120 Duplex channels

Bit rate 1152 kbit/s

Language encoding
32 kbit/s ADPCM (Adaptive Differential Pulse Code Modulation)

Modulation
GFSK (Gaussian Filtered Frequency Shift Keying)

System configuration

Integration in
Hicom 150 E OfficePro V1.0 and V2.0
Hicom 150 E OfficeCom V2.0

Max. number of radio switching stations (module) per Hicom 1

Max. number of base stations 16

Max. number of feature handsets 64

Radio switching stations

Line interface

- Type: $U_{P0/E}$
- Number of channels per line interface: 4 B channels; 32 kbit/s each
- Number of line interfaces: 16
- Range: between radio exchange and base station up to 1,000 m

DECT base station

Line interface

- Type: $U_{P0/E}$
- Number of channels: 4 B channels; 32 kbit/s each
- Number of line interfaces: max. 2

Radio interface

- Simultaneous channels: max. 12
- Average output power: 10 mW per channel
- Antenna diversity: 2 antennae
- External antenna can be connected: Impedance 50 Ohm

General information

- Measurements(LxBxDinmm): 200 x 176 x 49
- Weight: 490 g
- Power supply: 33 to 60 V DC power from Hicom system and/or external PSU
- Wattage: max. 4.5 W
- Operating temperature: +5 °C to +45 °C



External housing

- Measurements (L x B x D in mm): 296 x 256 x 90
- Weight: 960 g
- Power supply for heating: external PSU
- Wattage (heating): 6 W
- Operating temperature: -40 °C to +45 °C
- Relative air humidity: up to 95%

