

Gigaset N870E IP PRO

The flexible extension for optimized DECT coverage in Gigaset N870 Multicell solutions with special demands

For installations in special environments the antenna angle and orientation can be changed to improve radio wave propagation and to reduce interferences or reflections. The two detachable external antennas are adjustable at 45°-90° angles. N870E has 2 TNC connectors which are also suitable for third-party antennas. The N870E is based on the same hardware and software and has the same features and upgrade possibilities as the Gigaset N870IP PRO multicell. The N870E can be used in mixed mode with the standard N870IP multicells. It is compatible with a large number of IP-based telephone systems from well-known manufacturers and virtual telephone systems in the network.



UP TO
20.000
HANDSETS



UP TO 6.000
SIMULTANEOUS
CALLS



FLEXIBLE
ANTENNA
POSITION



REDUNDANCY,
SRTP/SIPS/TLS
SECURITY



LDAP(S) AND
CLOUD PHONE
BOOKS



ZERO-TOUCH
AUTOPROVISIO-
NING



REMOTE
MANAGEMENT



HD
VOICE



WALL
MOUNTABLE



GIGASET
SOFTWARE
PLATFORM



Feature highlights

- Universal hardware:
 - 2 TNC connectors for external antennas
- Each DECT Multicell system supports:
 - Up to 250 users / SIP accounts / handsets
 - Up to 60 base stations / 60 parallel calls
 - Up to 10 simultaneous calls per base
- With N870 in integrator only role:
 - Up to 800 users / SIP accounts / handsets
 - Up to 240 base stations
 - Up to 240 parallel calls
 - Up to 20 N670
- With Virtual integrator:
 - Up to 20.000 users / SIP accounts / handsets
 - Up to 6.000 base stations
 - Up to 6.000 parallel calls
 - Up to 300 N670
- Seamless handover and roaming
- Sync over the Air and Sync over LAN
- Phonebook support: LDAP, XML, Remote, central phone book, Broadsoft, 3CX, xHTML
- Professional zero-touch configuration via auto-provisioning
- uaCSTA support for CTI-integration
- XHTML applications by customer
- End-to-end signalling and voice encryption
- Redundancy¹
- Software update over the air (SUOTA)¹

DECT multicell with new flexibility

The new Gigaset N870E IP PRO is a variant of the Gigaset IP DECT Multicell N870IP PRO and also uses the proven DECT technology. This is secure because it is digital and encrypted. Tiltable and detachable antennas provide a greater degree of flexibility, as third-party antennas can also be mounted on the externally mounted TNC connectors. This allows flexible adjustment and optimisation of antenna alignment for specific customer installations.

Scalable and future-proof

The N870 DECT multicell system is an expandable solution for any organisation. Start small and expand later when your business is requesting more users. The N870E IP PRO can support so called S, M, L, XL and XXL environments. L to XXL make use of the Gigaset Integrator, which integrates different locations, buildings and floors into one large communication network.

Connectivity

The N870E IP DECT multicell system is interoperable with many platforms and network providers. All recent professional handsets from Gigaset are compatible with the N870E System and integrate smoothly. A full and actual list from platforms, providers and handset compatibility can be found on our wiki.

Easy setup and configuration.

Administrators benefit from zero touch provisioning. The intuitive web based interface with online help, XML based configuration files, profiles and support of standard protocols make configuration extremely easy and fast.

¹ In preparation, available at a later date.

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Technical data

Phonebook and dialling

- Link to an external LDAP(S) phonebooks (up to 10)
- XML directories
- XSI directories (BroadSoft)
- Search function and reverse lookup online
- Name indication² for incoming calls, outgoing calls, missed call list, redial list
- DTMF (SIP Info / RFC 2833, in-band)
- Country specific call progress tones (provisionable)
- CLIP, CNIP: Name indication² for incoming calls, outgoing calls, missed call list, redial list
- Name replacement from local phonebook and online directories (auto lookup)
- Calls lists: up to 50 calls (missed, received, dialled)
- XSI Call logs (Broadsoft)
- SIP MWI (Message Waiting Indicator) signalling for voice mail

Software

- Easy configuration via web browser
- Administrator friendly configuration via configuration file
- User specific Auto-provisioning:
 - via MAC address
 - via XML configuration file
- Firmware upgrade / downgrade
- Backup and restore functions
- Log to external syslog servers

Hardware

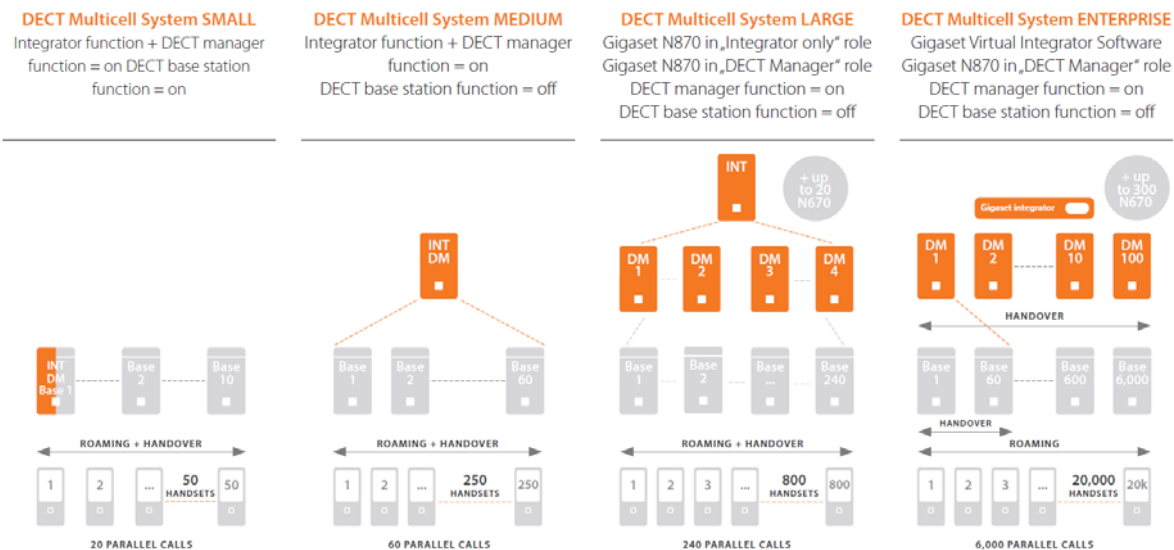
- Wall- or ceiling mountable
- 2 TNC connectors for external antennas
- 2 external antennas
- Antenna diversity
- 2 Status LEDs
- Reset key
- Ethernet RJ45 10/100 Mbps
- Power over Ethernet: PoE IEEE 802.3af class 1
- Power saving switch mode power supply (EU or UK) as accessory

Special features

- Broadsoft feature sync (DND and Call Forward)
- Broadsoft phonebook and Call logs
- MWI signalling configurable
- Failover: DNS SRV, Failover server
- Sync over DECT, Sync over LAN or Mixed mode
- Connect DECT sync/a-sync state with SIP registration. (Handset off or out of range / de-register SIP)
- IPUI Provisioning
- xHTML Applications
- Deregister SIP if handset out of range/power down
- uaCSTA
- local 3-Way Conference

Connectivity

One Hardware for all functions: N870E IP PRO appliance. Function is set by role in the device settings: Integrator, DECT Manager and/or Base station.



¹ In preparation, available at a later date via software update.

² Features and functions depend on the SIP-telephone-system.

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Service

- Syslog
- PCAP tracing
- SNMPv3
- CLI - Command Line Interface for specific service cases
- Save and Restore
- Base station remote reset by power procedure
- Firmware update from server¹ (file based), automatically updating all base stations
- Visualization Tool

Gigaset N870 Integrator software

- Central management of up to 100 N870(E) and 300 N670 in different locations

Technical specifications

- DECT EN 300 175-x
- Standards: GAP / pnCAP
- DECT radio coverage up to 50 m (indoor) and 300 m (outdoor)
- Support of 120 DECT channels
- TLS1.0/1.1/1.2 for HTTPS and SIP, SIPS
- SIP (RFC3261, RFC2396, RFC2976)
- HTTP/Digest Authentication (RFC2617)
- Locating SIP Server (RFC3263)
- Call Transfer (RFC5589, RFC3515, RFC3891, RFC3892)
- MWI (RFC3265, RFC3842)
- SDP (RFC4566, RFC3264, RFC3555)
- RTP (RFC3550, RFC3551, RFC3555, RFC2833), SRTP, RTCP
- IPv4, IPv6¹, SNMP, DHCP (Option 1, 3, 6, 12, 15, 28, 42, 114, 120), DNS, TCP, UDP, VLAN (IEEE 802.1q), DNS SRV
- 10 simultaneous calls (G.711²)
- Codecs G.711², G.722², G.729ab²
- VAD/CNG (for G.729ab)
- QoS (RFC2474, RFC2475)
- Approvals: CE

Platform features

N870E supports many platforms, incl. Broadsoft, Asterisk and 3CX. Visit the wiki.gigasetpro.com, for the latest overview and status. Features and functions depend on the SIP-telephone-system.

General Platform features include:

- Network AM
- Call transfer: attended, un-attended, blind
- Call waiting
- Call hold/toggle/resume
- Call reject
- CLIR
- Call forwarding: CFU, CFNR, CFB
- Distinctive Ring (internal / external / group / door / emergency / optional)
- Auto-provisioning
- Net directories via LDAP(S)
- Group Pick-up

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Gigaset N870E multicell system components

Gigaset N870E IP PRO:

Order number: S30852-H2718-R101

Licenses for central management & branch solution:

N870 Virtual Integrator SW license: S30852-H2716-X1

N670 DECT Manager license: S30852-H2714-X2

N870 DECT Manager license: S30852-H2716-X2

Power supply

Optional, if no PoE/PoE injector available

- EU: Order-Nr. L36280-Z4-X706
- UK: Order-Nr. L36280-Z4-X745

Dimensions and weight

Packaging

- Dimension (L x W x H): 223 x 163 x 65 mm
- Weight: approx. 380 g

Device

- Colour of the housing: Polar White
- Colour of the antennas: Black
- Dimensions (L x W x H in mm)
 - Without antennas: 182,3 x 113,1 x 42,2
 - With antennas: 226,5 x 187,3 x 42,2
- Weight: approx. 0,3 kg

Environmental conditions

- Protection class IP20 (indoor)
- Operating temp: +5° to +45° C
- Storage temp: -20° to +70° C
- Relative humidity: 20 % - 75 % non-condensation

Box contents

- Main device
- 2 Antennas
- Security leaflet
- Screws

It's your best choice.

Discover more! Contact your Gigaset sales representative,
visit gigaset.com/pro or the wiki at wiki.gigasetpro.com

Gigaset