# Gigaset N770 IP PRO

**The DECT IP Multicell system for small to medium businesses**

## Highlights:

- o Multicell system for up to 100 users / SIP accounts / handsets
- o Up to 30 parallel calls
- o Up to 20 N770 base stations can be managed
  by one N770 in Integrator-DECT manager role
- o Compatible with many IP-based telephone systems
  and virtual telephone systems from well-known manufacturers
- o Alarm, Messaging and Location support via license
- o Seamless handover and roaming
- o Sync over the Air and Sync over LAN
- o Phonebook support: LDAP, XML, Remote,
  central phone book (only in Small / Medium system sizes),
  Broadsoft, 3CX, xHTML
- o Professional zero-touch configuration via auto-provisioning

The Gigaset N770 IP PRO is the choice for cordless telephony convenience for up to 100 users.
The Gigaset N870 Integrator software offers central management of N770 in different locations.
Up to 30 parallel calls guarantee a high degree of readiness in your business environment. N770 can grow with your business: By license up to 21 N770 base stations can be connected to a N870 multicell to reach a larger DECT coverage area (available at a later date via a software update). N770 is compatible to a large number of on-premise and cloud PBXs and easy to setup by autoprovisioning. The feature set is rounded off by Alarm, Messaging and Location (AML) support.

### DECT technology with full security
DECT Technology is secure because its digital and encrypted. Eavesdropping on a conversation is not possible wirelessly. In the N770IP System, SIP Security is added to the security of the network. End to end security is now ensured. Security includes SRTP/SIPS/TLS, LDAP(S) and HTTPS.

### Scalable from small to medium system sizes
The N770 DECT multicell system is an expandable solution for small to medium sized businesses. Start small and expand later when your business is requesting more users. By license up to 21 N770 base stations can be connected to a N870 IP PRO Multicell (available at a later date via a software update). Larger installations make use of the Gigaset Integrator, which integrates different locations, buildings and floors into one large communication network.

### Connectivity
The N770 IP DECT multicell system is interoperable with many platforms and network providers. All recent professional handsets from Gigaset are compatible with the N770 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.

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# Technical specifications

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| **Keyboard** | **Functions** | • Reset and role change |
| | **Base station button** | • Illuminated button with status indication (two LEDs) |

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| **Audio** | **Codecs** | • G.711<br>• G.722<br>• G.729ab<br>• VAD/CNG (for G.729ab)<br>• Opus (On request)<br>• AMR-WB (On request) |

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| **Phonebook** | **Central contacts** | • Central phone book, hosted by N770: 2000 entries or 2 MB<br>• An entry contains name and first name<br>• Phone number can be categorized by office, mobile and home<br>• Phone list searchable (instant search) by names<br>• Search function and reverse lookup online<br>• Name replacement from local phonebook and online directories (auto lookup) |
| | **Online directories** | • Net directories via LDAP(S)<br>• Link to external LDAP(S) phonebooks (up to 10)<br>• XML directories<br>• XSI directories (BroadSoft) |
| | **Call lists** | • Call lists for up to 50 entries (missed, received, dialed)<br>• Phone numbers can be saved from the call list<br>• Call lists with phone number (CLIP/CNIP) and date/time for all calls and for outgoing, received or missed calls<br>• XSI call logs (Broadsoft) |

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| **Telephony** | **Telephony devices** | • Add and manage up to 100 DECT devices<br>• SIP deregistration if handset is out of range / switching off the handset or power failure does not lead to deregistration of the SIP account |
| | **Functions** | • Display of the individual name of each telephone device<br>• Message display (MWI) adjustable<br>• Signaling of voicemail via SIP-MWI (Message Waiting Indicator)<br>• Country-specific ring tones (provisionable) |
| | **VoIP** | • Up to 100 SIP accounts<br>• Connect DECT sync/a-sync state with SIP registration (Handset off or out of range / de-register SIP)<br>• SIP (RFC3261, RFC2396, RFC2976)<br>• DTMF (SIP Info / RFC 2833, Inband) |
| | **DECT** | • 30 concurrent calls |

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| **Signalling & display indications** | **CLIP** | • CLIP, CNIP: Name indication for incoming calls, outgoing calls, missed call list, redial list |

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| **Power supply** | **Power over Ethernet** | • PoE IEEE 802.3af, class 1 |
| | **Power supply** | • EU: Order number: L36280-Z4-X706<br>• UK: Order number: L36280-Z4-X745 |

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| **Connectivity** | **Frequency** | • 1880-1900 MHz (Europe)<br>• 1910-1930 MHz (Latin America) |

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|  |  | • 1910-1920 MHz (Brazil)<br>• 1880 MHz-1895 MHz (South-East-Asia/Taiwan)<br>• US variant available |
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|  | LAN connection | • Ethernet RJ45 10/100 Mbps |

| Compatibility | Standards | • DECT EN 300 175-x<br>• Standards: GAP / pnCAP<br>• Support of 120 DECT channels |
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|  | Gigaset handsets | • S700H PRO, R700H PRO, R700H protect PRO, SL800H PRO, SL850H PRO<br>• Compatibility info: wiki.gigasetpro.com |

| Functions | Desk operation | • Yes |
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|  | Wall mountable | • Yes |
|  | Ceiling mountable | • Yes |

| Regulations / Specifications | Approvals | • Approvals: CE |
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|  | Protection class | • Protection class IP20 (indoor) |

| Dial functions | Functions | • Call forwarding: CFU, CFNR, CFB<br>• Call forwarding (RFC5589)<br>• Transfer call: with enquiry, without enquiry, blindly<br>• Hold/Make/Resume Call<br>• Reject call<br>• Call waiting<br>• CLIR<br>• Distinctive Ring (internal / external / group / door / emergency / optional)<br>• Call waiting can be activated/deactivated per telephone device<br>• Display for number of missed calls/new voice messages can be activated/deactivated<br>• Name display for incoming calls, outgoing calls, missed calls and the redial list |
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|  | Dialing functions | • Call forwarding<br>• Call forwarding can be activated/deactivated (always, on busy and on no answer)<br>• Broadsoft Feature Sync (DND and Call Forward) |
|  | Area code | • Area code and prefix numbers editable<br>• Dialing codes can be added to outgoing numbers (can be activated/deactivated)<br>• Area code (country code and area code)<br>• Country codes are selectable by presets |
|  | Simultaneous calls | • 30 simultaneous external calls per DECT base station |
|  | Conference calls | • Conference calls with 3 participants |
|  | Dialing procedure | • DTMF (Audio, RFC2833, SIP Info, automatically)<br>• Multi-frequency dialing (DTMF) |
|  | Redial | • Direct dialing from the call list possible |

| Menu | Operation | • Simple configuration via web browser<br>• Intuitive menu navigation for easy operation<br>• Convenient menu navigation in different languages (ENG, FRA, ESP, ITA, GER, POL, RUS, CZE, GRC, PRT, NLD and TUR) |
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| Range | DECT | • Outdoors: up to 300 m; indoors: up to 50 m |
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| | | • Antenna diversity |
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| Operation of several handsets | Number of handsets | • Up to 100 Gigaset DECT handsets can be registered<br>• Defining send and receive accounts for a handset<br>• For more information: wiki.gigaset.com |
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| Configuration via web browser | Web configurator | • Administrator friendly configuration via configuration file<br>• Firmware upgrade/downgrade<br>• Backup and restore functions<br>• Log to external syslog servers |
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| | LAN | • Ethernet RJ45 10/100 Mbps<br>• 10/100 Base-T Auto MDI/MDIX Ethernet LAN Port<br>• IPv4 address type: static and automatic<br>• Subnet mask supported<br>• Standard gateway<br>• Preferred DNS server is supported<br>• Supports alternative DNS servers |
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| | Network | • SNTP<br>• DNS SRV-RR (RFC2782)<br>• Failover: DNS SRV, Failover Server<br>• VLAN (IEEE 802.1q), VLAN identifier (LAN), VLAN priority (LAN)<br>• Operation on routers with automatic assignment of the IO address (DHCP)<br>• DHCP (Option: 6, 42, 60, 114, 120)<br>• DHCPv4 (RFC2131)<br>• SIP (RFC3261, RFC2543, RFC2396)<br>• SDP (Session Description Protocol, RFC4566, RFC3264, RFC3555)<br>• RTP (RFC3551, RFC3555, RFC2833)<br>• SRTP<br>• HTTP<br>• HTTPS<br>• IPUI provisioning<br>• xHTML applications (user specific) |
| | Network standard | • Internet protocol: IPv4 (RFC0791)<br>• DNS SVR (Domain Name System)<br>• TCP, UDP |
| Network specifications | Security | • TLS 1.0/1.1/1.2/1.3 for HTTPS and SIP, SIPS<br>• SIP (RFC3261, RFC2396, RFC2976)<br>• HTTP/Digest Authentication (RFC2617)<br>• Locating SIP Server (RFC3263)<br>• Call transfer (RFC5589, RFC3515, RFC3891, RFC3892)<br>• MWI (RFC3265, RFC3842)<br>• SDP (RFC4566, RFC3264, RFC3555)<br>• RTP (RFC3550, RFC3551, RFC3555, RFC2833), SRTP, RTCP<br>• IPv4, IPv61, SNTP, DHCP (Option 1, 3, 6, 12, 15, 28, 42, 114, 120), DNS, TCP, UDP, VLAN (IEEE 802.1q)<br>• DNS SRV<br>• Accept/activate/deactivate all certificates<br>• Display of certificate name and type<br>• Edit certificates: Show details, remove<br>• Import certificates<br>• Client certificate support (certificate and private key uploadable) |

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| | | • HTTP authentication (HTTP digest username, HTTP digest password)<br>• HTTPS (Server/Client)<br>• HTTPS web access to the device manager |
| | Quality of Service | • Class of Service (CoS)<br>• Bandwidth management for prioritizing services<br>• QoS (RFC2474, RFC2475)<br>• SIP ToS, Diffserv<br>• RTP ToS, Diffserv<br>• DSCP<br>• Differentiated Services Code Point (DSCP) support<br>• IEEE 802.1q<br>• IEEE 802.1p port-based priority on LAN port, application-based priority on WAN port<br>• IEEE 802.1Q VLAN tagging |
| | Provisioning | • Auto-Provisioning via HTTP/HTTPS, TR-069 on request<br>• User-specific auto-provisioning via MAC address and XML configuration file<br>• Firmware upgrade/downgrade<br>• Data server (URL) editable<br>• Provisioning process can be started manually via Gigaset Redirect and Provisioning Environment (GRAPE) |
| | Maintenance and service | • Firmware update from server (file based, planned), automatically updating all base stations<br>• Save and restore<br>• Syslog<br>• SNMPv3<br>• Sync over DECT, Sync over LAN or mixed mode<br>• CLI - Command Line Interface for specific service cases<br>• Base station remote reset by power procedure<br>• uaCSTA<br>• PCAP tracing via CLI<br>• Visualization tool |

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| Alarm, Messaging, Location (AML) support | Alarm | • Handset can establish an alarm call/alarm event (MQTT) (Features and functions depend on the SIP-telephone-system. AML features dependent on application server, configuration and handset model. For more info visit wiki.gigasetpro.com)<br>• Establish an alarm call via function key (Features and functions depend on the SIP-telephone-system. AML features dependent on application server, configuration and handset model. For more info visit wiki.gigasetpro.com)<br>• Lone worker protection (DGUV certified) with Unify OpenStage M3 Plus / M3 Ex Plus handset and tetronik DAKS server |
| | Messaging | • Connection of up to 10 application servers (alarm/messaging server) via MQTT interface<br>• Send messages to handsets with signalling and indication according to priority (5 priority levels)<br>• Specific alerting tones<br>• Collect user response via softkeys (up to 10 reply options) and send to alarm server<br>• Offer call setup in context of the message response<br>• Message inbox<br>• SIP messaging for plain text, in use cases without alarm server<br>• Volume can be set |

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| | | • Support of icons<br>• Vibration<br>• Overrule silence |
| | Location | • Alarm server can retrieve data about DECT environment (RSSI) and Bluetooth beacons from a handset for calculation of exact position (Features and functions depend on the SIP-telephone-system. AML features dependent on application server, configuration and handset model. For more info visit wiki.gigasetpro.com) |

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| Energy efficiency | Power consumption | • Power consumption 2,1W: As networked equipment with high network availability, this HiNA-Device is fulfilling the (EU) 2023/826 ecodesign requirement for energy consumption <7W<br>• The intended use is VoIP telephony, Alarm, Messaging and Location as well as xhtml online services. To fulfill this functionality without delay, the device does not offer power management or standby modes. This could result in increased power consumption |

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| Dimensions & weights | Base station | • Base station: 180 x 110 x 42 mm (L x W x H)<br>• Weight (approximately): 220 g |
| | Packaging | • 223 x 163 x 65 mm (L x W x H)<br>• Weight (approximately): 380 g |

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| Ordering information | Color | • Polar-White |
| | Order number | • S30852-H2736-R101 |
| | Power supply (optional, if no PoE/PoE injector available | • EU: Order number: L36280-Z4-X706<br>• UK: Order number: L36280-Z4-X745 |
| | Alarm, Messaging, Location (AML) licenses | • Messaging license N670/N870 (license per handset), order number: S30852-H2714-X11<br>• Location incl. Messaging License N670/N870 (License per handset), order number: S30852-H2714-X21 |

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| Environmental conditions | Operating temperature | • 5°C to 45°C |
| | Storage temperature | • -20°C to 70°C |
| | Relative humidity | • 20% to 75% (non-condensing) |

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| Scope of delivery | 1x | • Base station |
| | 1x | • Security leaflet |
| | 1x | • Screws |

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