

## COMpact 4000

Partly modular and compact ICT system (VoIP, ISDN, POTS) with a maximum of 10 trunk lines and 16 subscribers, with 2 module slots, in a wall-mount cabinet.

- Up to 16 VoIP subscribers
- Up to 12 ISDN subscribers
- 8 analogue subscribers
- Up to 8 VoIP channels simultaneously, configurable as external (Internet telephony) or internal
- System telephony with digital VoIP and ISDN telephones out of the COMfortel series
- Remote extensions with COMfortel 1200 IP, 1400 IP, 2600 IP, 3200 and 3600 IP, as well with mobile VoIP clients/softphones
- Internal ISDN ports for 2-wire and 4-wire technology (U<sub>P0</sub> and S<sub>0</sub>)
- Unified Messaging – central voicemail and fax system with max. 4 voicemail channels and 1 fax channel for max. 20 subscribers or groups
- CTI with Auerswald PBX Call Assist / PBX Call Assist 2
- Interfaces (APIs) for the connection of 3<sup>rd</sup> party software, e.g. ESTOS ProCall and own developments
- Automatic attendant, 10 targets parallel or cascaded
- Integration of home and facility automation like KNX/EIB and IP switching relays
- Full system integration of analogue and IP door phones
- Address books for departments and multi-company operation



The new COMpact 4000 seamlessly adapts to any operating environment and takes care of full network integration in next to no time at all. Its setup assistant helps you enter all basic settings and get the system ready for operation within minutes. Based on a basic setup which already meets most of the connection and equipment requirements the system can be expanded with two plug-in modules for universal ISDN and analogue trunk lines. And there's a host of convenient functions, such as integrated voicemail and fax, CTI and UC capabilities, full VoIP integration and interfaces for house automation systems – everything that makes up modern telecommunications is on board. If you are looking for a modern, small communications center for all traditional and IP-based connections, you are perfectly served with the COMpact 4000.

## Features

### System features

- Trunk line authorisations for the reduction of costs and for multi-company operation
- System profiles (10 configurations max.) switchable automatically using the internal clock, manually by phone
- Door terminal calls internal / external (pharmacy function)
- Busy-on-busy for internal and external calls
- Call through for ISDN and VoIP trunk lines
- Boss/secretary function<sup>1,2</sup>
- Direct line access
- Speaker announcement (intercom) to corded COMfortel system telephones, to single users or groups
- Bank holiday table for automatic switching of system profiles and wake-up calls
- Call data management with up to 18,000 records
- Call take-over (e.g. from integrated answering machine)
- Group caller lists<sup>3</sup>
- Group functions with intelligent ringing schemes
- Least Cost Routing Soft-LCR for VoIP, ISDN and POTS
- Call brokering, three-party conference internal / via exchange line / via 2<sup>nd</sup> call channel
- 10 emergency numbers with special rights and prioritisation
- Open query
- Parallel call to any second target
- Pick-up, specific (with pre-check<sup>1</sup>) / global pick-up<sup>5</sup>
- Private trunk line access with user-related password
- Project assignment of calls
- Call diversion, follow me internal, cascadable
- Software interface
- Call barring / exception lists, 10 each for incoming and outgoing calls
- Announcement before answering unconditional or on busy, 10 announcements can be stored
- Voicemail and fax functions
- Waiting field<sup>1,2</sup> for max. 10 simultaneous incoming calls
- Music on Hold with insertable announcement, loadable WAV file

### SIP convenience functions for standard SIP phones<sup>4</sup>

- SIP-BLF, Busy Lamp Field acc. to RFC 4235
- Pick-up pre-check
- SIP-MWI (Message Waiting Indication), monitoring of the central voicemail/fax boxes acc. to RFC 3842
- SIP text messages<sup>5</sup> acc. to RFC 3428

### Central address books

- 2,000 contacts incl. photo, address and phone numbers
- Separate address books for departments and multi-company operation
- Convenient operation using the COMfortel system telephones
- Different security levels for administrators and users
- Address book provisioning via LDAP
- Import possibilities of VCF and CSV files

### Facility and home automation

- Max. 24 actuators, e.g. a/b Switching Modules or via http with IP switching relays
- KNX/EIB integration via IP, e.g. with Gira HomeServer
- Time or key controlled operation of heating systems, air-condition lighting or blinds<sup>1,2</sup>
- Full integration of VoIP and analogue door intercom systems
- Support for IP video intercom systems<sup>1</sup>

### VoIP (internet telephony / internal IP telephony)

- 4 VoIP channels (external / internal) included, expansion to 8 VoIP channels possible<sup>4</sup>
- Fax over IP (T.38 acc. to ITU-T) external
- Excellent speech quality due to optimised echo cancellation
- Integration of remote extensions and mobile clients
- Encrypted signalling (SIPS) and data transmission (SRTP)
- Transfer of customer-specific numbers for outgoing calls (CLIP no screening)

### ISDN features

- Call waiting (CW)
- Presentation of the forwarders number (RgN)
- Destination number presentation to caller (COLP) and presentation restriction of the destination number to the caller (COLR)
- Number (CLIP) and name (CNIP) presentation
- Automatic recall on busy (CCBS), no response (CCNR)
- Case by case presentation restriction of the own number (CLIR)
- Call charge information (AOCE / AOCD)
- Call forwarding on busy (CFB), no reply (CFNR), unconditional (CFU), of a DDI (CD (PR)), configuration dependent
- Transfer of customer-specific numbers for outgoing calls (CLIP no screening)

### Voicemail and fax

- 1 voicemail channel and 1 voicemail box included
- Expansion possible to a maximum of 4/0 or 3/1 channels for voicemail/fax with 20 boxes each<sup>4</sup>
- Fax sending<sup>4</sup> via the network (printer driver for Windows 7,8,10 / MAC OS.X)
- Storage of the voice and fax messages on USB memory (not included)
- Recording capacity (at 4 GByte of memory):
  - approx. 120 hours of voice messages incl. announcements
  - or approx. 3,500 fax pages
- Call acceptance and individual announcements, depending on calling number, time and call type
- Comfortable operation via corded COMfortel system telephones
- Substitute function
- Voicemail and fax forwarding via e-mail
- Remote access to the voicemail boxes incl. voice guidance

### UCC functions with PBX Call Assist<sup>4</sup>

- Call setup and ending via the PC, incl. Outlook plug-in
- Presence management with automatic status detection
- Instant messaging for all PBX Call Assist users
- Contact data for local users and out of external data bases

### Software interfaces (APIs)

- Retrieving the call data lists using SFTP
- LAN-TAPI<sup>4</sup> (4 clients included)
- Online name search (backward searching), customisable
- PBX Control API for the control of system functions, e.g. retrieve caller lists, call forwarding ON/OFF, configuration switching, sending of fax messages and voicemails

### Installation and maintenance

- Administration via web interface, secure access via https
- System access local via Ethernet and remote via Internet
- System software update via local or remote PC upload
- Central configuration of IP telephones<sup>5</sup> (security by using certificates<sup>1</sup>)
- Selectable authorisation levels with password protection
- Support for IPv6

### Activation options<sup>4</sup>

- Expansion from 4 to 8 VoIP channels, thereof up to 4/0 or 3/1 channels for voicemail/fax, incl. 20 voicemail and fax boxes
- Automatic Attendant
- LAN-TAPI (for all subscribers), 4 included
- PBX Call Assist / PBX Call Assist 2
- SIP convenience package for standard SIP telephones

<sup>1</sup> With COMfortel 1400 IP / 2600 IP / 3200 / 3600 IP

<sup>2</sup> With COMfortel 1400 / 1600 / 2600

<sup>3</sup> With corded COMfortel system telephones

<sup>4</sup> Can be activated in the Upgrade Center, with costs or expansion module necessary

<sup>5</sup> With system firmware 6.6

## Technical data

- **Operation voltage:** 230 V ± 10 %, 50 Hz
- **Power consumption\*:** 3.2 W min., 55 W max.
- **Trunk lines\*:** max. 3 S<sub>0</sub> ports, point-to-multipoint/point-to-point connection (PTMP/PTP, Euro-ISDN, DSS-1); max. 4 analogue trunk lines (DTMF, CLIP support); max. 8 VoIP channels (SIP acc. to RFC 3261), point-to-multipoint/point-to-point connection (SIP trunking)
- **VoIP codecs external:** G.711, G.726, iLBC
- **Analogue subscribers:** 8 analogue terminals, symmetrical, pulse/DTMF, CLIP/CNIP support
- **Range analogue ports:** 2 x 50 Ω, approx. 800 m at Ø 0.6 mm
- **Internal S<sub>0</sub> ports\*:** max. 6 S<sub>0</sub> ports, point-to-multipoint connection (PTMP, Euro-ISDN, DSS-1)
- **Range internal S<sub>0</sub> ports:** approx. 150 m
- **U<sub>P0</sub> ports\*:** max. 6 U<sub>P0</sub> ports, point-to-multipoint connection (PTMP, Euro-ISDN, DSS-1)
- **Range U<sub>P0</sub> ports:** 1,000 m at Ø 0.6 mm
- **VoIP subscribers:** up to 16 subscribers
- **VoIP channels internal:** up to 8 VoIP channels (SIP acc. to RFC 3261)
- **VoIP codecs internal:** G.711, G.726, iLBC
- **Voicemail channels\*:** up to 4 channels and 20 voicemail boxes
- **Fax channels\*:** 1 channel and 20 fax boxes
- **Fax standard\*:** T.30 acc. to ITU-T
- **Door intercom ports\*:** connected to up to 8 analogue subscriber ports or as VoIP subscribers
- **Switching relays:** up to 24 Auerswald a/b Switching Modules or IP switching relays
- **PC connection:** 1 Ethernet port 10/100Base-T (10/100 MBit/s, Twisted Pair), full/half duplex, auto negotiation
- **Charge printer/memory connection:** USB host V2.0
- **Module slots:** 2 slots for COMpact 2BRI and 2FXO modules
- **Housing:** plastic, chassis with cover
- **Dimensions (w x h x d):** 334 mm x 331 mm x 94.5 mm
- **Weight: approx.** 1,600 g (without expansion modules)
- **Safety:** CE

\* depending on the setup level of the system

## Scope of delivery

- Base unit COMpact 4000
- Ethernet cable
- ISDN cable
- Installation and setup guide
- Fastening material (screws and dowels)

## Ordering information

- **Product designation:** COMpact 4000
- **Article number:** 90118
- **GTIN code:** 40193779011182

## Matching modules

### COMpact 2BRI module

- **Operation voltage:** from the base unit
- **Installation:** slot in the base unit
- **Trunk lines:** 0 – 2 S<sub>0</sub> ports, Euro-ISDN (DSS-1), point-to-multipoint (PTMP) or point-to-point (PTP) connection
- **Internal ISDN ports:** 0 – 2 S<sub>0</sub>/U<sub>P0</sub> ports, Euro-ISDN (DSS-1), point-to-multipoint (PTMP) connection
- **Dimensions (w x h x d):** 160 mm x 70 mm x 25 mm
- **Weight:** approx. 80 g
  
- **Product designation:** COMpact 2BRI module
- **Part number:** 90131
- **GTIN code:** 4019377901311

### COMpact 2FXO module

- **Operation voltage:** from the base unit
- **Installation:** slot in the base unit
- **Trunk lines:** 2 analogue trunk lines, MFV, CLIP enabled (FSK/DTMF)
- **Dimensions (w x h x d):** 160 mm x 70 mm x 25 mm
- **Weight:** approx. 60 g
  
- **Product designation:** COMpact 2FXO module
- **Part number:** 90132
- **GTIN code:** 4019377901328

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