

COMmander® 6000RX

Full modular communication server (ISDN, VoIP) for seamless VoIP integration with up to 38 trunk lines, up to 112 subscribers and 15 module slots, in a 19" housing for rack mounting.

- Up to 38 exchange calls simultaneously via ISDN and VoIP
- Up to 112 VoIP subscriber
- Up to 112 ISDN and 64 analogue subscribers
- Up to 64 VoIP channels simultaneously, thereof up to 38 configurable for external use (Internet telephony)
- System telephony with digital VoIP and ISDN devices of the COMfortel series
- Remote extensions with COMfortel 1200 IP, 1400 IP, 2600 IP, 3200, 3600 IP, as well with mobile VoIP clients and soft phones
- Internal ISDN ports for 2 wired and 4 wired technology (UP₀ and S₀)
- Unified Messaging – central voicemail and fax system with up to 16 channels for up to 120 subscriber and groups
- Interfaces (APIs) for connecting 3rd-Party-Software, e.g. ESTOS ProCall and individual developments
- Auto attendant
- Hotel function, check-in/check-out and invoice printing without PC
- Door and switching functions
- 19" housing with 15 module slots



Even if you want to start with a small system at first – our COMmander 6000RX with its fully modular design makes a perfect investment in the future. It's suitable for wall-mounting, offers 38 trunk channels and up to 112 internal ports. To connect with the public telephone network, you may choose between VoIP trunk channels, ISDN basic lines and a primary multiplex access, while internal participants share the VoIP, ISDN and analogue connections.

Its full potential, however, lies idle until your demands increase and your communicational requirements grow. Are you keen on enjoying uninterrupted communication via wireless DECT system phones, or do you have a centralized voicemail and fax system with Unified Messaging in mind?

No problem – simply plug the according extension into one of the COMmander 6000RX's 15 open slots. You may even tap the advantages of the "Cloud" for your company.

This high-performance server can be easily integrated into your local network which ensures that all your subsidiaries and home offices are optimally tied to the system. Integrated web applications also enable you to configure and maintain your system from wherever you happen to be! The COMmander 6000RX is designed to be integrated in structured cable networks. Connections are easily accessible via patch panels, and retrofitting the system with extension modules is done directly on the front panel. As you see, this system can be designed to match exactly your requirements – from the smallest development stage up to the full version.

Features

System features

- Trunk line authorisations for the reduction of costs
- System profiles (10 configurations max.) switchable by internal clock or by phone from internal and external
- Door terminal to exchange line calls (pharmacy function)
- Busy-on-busy for internal and external calls
- Call through
- Boss/secretary function^{1,2}
- Direct line access
- Speaker announcement (Intercom) to corded system telephones (single and groups)
- Bank holiday table for automatic switching of system profiles or wake-up calls
- Call data management with max. 18,000 records
- Call take-over (e.g. from integrated answering machine)
- Group caller lists³
- Group functions with intelligent ringing schemes
- Call brokering, three-party conference internal / via exchange line / via 2nd call channel
- 10 emergency numbers with special rights and prioritisation
- Open query
- Parallel call, simultaneous calling of a 2nd target
- Pick-up, specific (with pre-check¹) / global pick-up⁵
- Private trunk line access with user-related password, usable from all extensions
- Call diversion, follow me internal, cascadable
- Software interfaces
- Call barring / exception lists, 10 each for incoming and outgoing calls
- Announcement before answering unconditional / on busy, 10 announcements can be stored
- Voicemail and fax functions
- Waiting field^{1,2} for up to 38 simultaneous incoming calls
- Music on Hold with insertable announcement, loadable WAV file

SIP convenience functions for standard SIP phones⁴

- SIP-BLF, Busy Lamp Field acc. to RFC 4235
- Pick-up pre-check
- SIP-MWI (Message Waiting Indication), monitoring of the central voicemail and fax boxes acc. to RFC 3842
- SIP text messages⁵ acc. to RFC 3428

Central address books

- 2,000 contacts incl. photo, addresses and numbers
- Separate address books for departments and multi-company operation
- Comfortable operation via COMfortel system phones
- Different security access levels for administrator and user
- Address book provisioning via LDAP
- Import 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^{1,2}
- Full integration of VoIP and analogue door intercom systems
- Support for IP video intercom systems¹

VoIP (internet telephony / internal IP telephony)

- 2 VoIP channels (external / internal) included, expansion to 64 VoIP channels possible⁴
- Excellent sound quality due to optimised echo cancellation
- Fax over IP external (T.38 acc. ITU-T) with COMmander 8/16VoIP R module
- Remote extensions and mobile VoIP clients integration
- Encoded signalling (SIPS) and data transmission (SRTP) with 8/16VoIP R module(s)
- Transfer of customer-specific calling number information with outgoing calls (CLIP no screening)

ISDN features

- Call Waiting (CW)
- Destination number presentation to the caller (COLP) and presentation restriction of the destination number to the caller (COLR)
- Presentation of the forwarder's number (RgN)
- Number (CLIP) and name (CNIP) presentation
- Automatic recall on busy (CCBS) and no response (CCNR)
- Presentation restriction of the own telephone number (CLIR)
- Call charge information (AOCE/AOCD)
- Call Forwarding on busy (CFB), no reply (CFNR), unconditional (CFU), of a DDI (CD (PR))
- Transfer of customer-specific calling number information with outgoing calls (CLIP no screening)

Voicemail and fax functions

- 2 voicemail channels and 4 voicemail boxes included
- 16 voicemail and fax channels max. with up to 120 boxes each⁴
- Fax sending via the network (printer driver for Windows 7,8,10 / MAC OS.X)⁴
- Recording capacity (integrated storage 4 GByte):
 - approx. 120 hours 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 phones
- Substitute function
- Message and fax forwarding via e-mail
- Remote access of the voicemail boxes incl. voice guidance

UCC functions with PBX Call Assist⁴

- 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)

- Recalling call data via SFTP
- LAN TAPI⁴ (8 clients in scope of delivery)
- Online name search (reverse search), adaptable
- PBX Control API to control system functions, e.g. recalling caller list, activating/deactivating call forwarding, configuration switching (e.g. day, night), recalling voicemails and fax messages

Installation and maintenance

- **Note:** System activation by specialized Auerswald dealer necessary (with costs)
- 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 telephones⁵ (security by using certificates¹)
- Selectable authorisation levels, password protected
- IPv6 support

Activation options⁴

- 8 additional VoIP channels for 8/16VoIP R-module(s), up to 64 VoIP channels possible
- 8 additional voicemail/fax channels, 40 additional voicemail and 40 additional fax boxes for the VMF R-module
- Auto Attendant
- Call through connections (all lines), 4 simultaneous connections included
- Call data records (up to 18,000), 6,000 included
- Hotel function²
- LAN TAPI (up to 112 subscribers), 8 included
- Least Cost Routing Soft-LCR (up to 112 subscribers), 8 included
- PBX Call Assist / PBX Call Assist 2
- Project assignment of calls
- SIP convenience package for standard SIP phones
- System activation (necessary for the operation of the system)

1 With COMfortel 1400 IP / 2600 IP / 3200 / 3600 IP

2 With COMfortel 1400 / 1600 / 2600

3 With corded COMfortel system telephones

4 Can be activated in the Auerswald Upgrade Center with costs or extension modules necessary

5 With system firmware 6.6

Technical data

COMmander 6000RX

- **Operation voltage:** 230 V ±10 %, 50 Hz
- **Power consumption*:** 7.1 W min., 230 W max.
- **Exchange lines*:** 1 S_{2M} primary rate connection (PRI) max., point-to-point connection (PTP, Euro-ISDN, DSS-1); 16 S₀ ports max., point-to-multipoint/point-to-point connection (PTMP/PTP, Euro-ISDN, DSS-1); 38 VoIP channels (SIP acc. RFC 3261), point-to-multipoint/point-to-point connection
- **VoIP Codecs trunk line*:** G.711 (optional: G.723.1, G.726, G.729, iLBC)
- **Analogue subscriber ports*:** 64 symmetrical max., pulse/tone dialling, CLIP/CNIP capable
- **Range of the analogue ports:** 2 x 50 Ω, approx. 790 m at Ø 0.6 mm
- **Internal S₀ ports*:** 56 S₀ ports max., point-to-multipoint connection (PTMP, Euro-ISDN, DSS-1)
- **Range of the internal S₀ ports:** approx. 150 m
- **Internal U_{P0} ports*:** 72 U_{P0} ports max., point-to-multipoint connection (PTMP, Euro-ISDN, DSS-1)
- **Range of the internal U_{P0} ports:** approx. 1,000 m at Ø 0.6 mm
- **VoIP subscriber*:** up to 112 subscribers
- **VoIP channels internal*:** 2-64 VoIP channels (SIP acc. to RFC 3261)
- **VoIP codecs internal*:** G.711 (optional: G.723.1, G.726, G.729, iLBC)
- **Voicemail and fax channels*:** 16 channels max., each 120 voicemail and fax boxes
- **Fax standard*:** T.30 acc. ITU-T
- **Door intercom ports*:** 8 max. acc. FTZ 123 D12-0
- **Maximum load door opener relay:** 30 V, 1 A max.
- **PC connection:** 1 Ethernet port 10/100 Base-T (10/100 MBit/s, twisted pair)
- **Printer connection:** USB host V2.0
- **Module slots:** 15 slots for COMmander 8VoIP-R-module(s), 16VoIP-R-module(s), S_{2M}-R-module, 4S₀-R-module, 8S₀-R-module, 8U_{P0}-R-module, 8a/b-R-module, VMF-R-module und 2TSM-R-module
- **Housing:** closed 19" rack-mounting type casing, 6 HU (height units)
- **Dimensions (w x h x d):** 483 mm x 227 mm x 245 mm (approx. 300 mm incl. handholds and cable inserting spout)
- **Weight (w/o modules):** approx. 5,400 g
- **Safety:** CE

* Depending on the setup level of the system

Scope of delivery

- COMmander® 6000RX
- Power supply cable
- Ethernet connection cable

Ordering information

- **Product designation:** COMmander® 6000RX
- **Part number:** 90672
- **EAN code:** 4019377906729

Matching modules

COMmander 8/16VoIP R module

- **Specification:** Expansion with 8 VoIP channels, usable internal/external, with release expandable to 16 channels
- **Connections:** 2 x RJ45
- **Max. quant.:** 4 per system
- **Article number:** 90675
- **GTIN code:** 4019377906750

COMmander PRI R module

- **Specification:** Expansion with 1 external PRI port with up to 30 B channels
- **Connections:** RJ45 / terminal blocks
- **Max. quant.:** 1 per system
- **Article number:** 90674
- **GTIN code:** 4019377906743

COMmander 4S₀ R module

- **Specification:** Expansion with 4 S₀ ports, usable internal/external
- **Connections:** 8 x RJ45
- **Max. quant.:** 12 per system
- **Article number:** 90677
- **GTIN code:** 4019377906774

COMmander 8S₀ R module

- **Specification:** Expansion with 8 S₀ ports, thereof 4 usable internal/external and 4 internal
- **Connections:** 16 x RJ45
- **Max. quant.:** 9 per system
- **Article number:** 90678
- **GTIN-Code:** 4019377906781

COMmander 8U_{P0} R module

- **Specification:** Expansion with 8 internal U_{P0} ports for system telephones
- **Connections:** 8 x RJ45
- **Max. quant.:** 9 per system
- **Article number:** 90679
- **GTIN code:** 4019377906798

COMmander 8a/b R module

- **Specification:** Expansion with 8 internal analogue ports
- **Connections:** 8 x RJ45
- **Max. quant.:** 8 per system
- **Article number:** 90682
- **GTIN-Code:** 4019377906828

COMmander VMF R module

- **Specification:** Central 8-channel voicemail and fax system with 80 boxes each. Expansion to 16 channels / 120 boxes with release code.
- **Connections:** 2 x RJ45
- **Max. quant.:** 1 per system
- **Article number:** 90680
- **GTIN code:** 4019377906804

COMmander 2TSM R module

- **Specification:** Door/switching/music module for 2 door stations, up to 6 switching relays and audio input/output
- **Connections:** terminal blocks, 2 x cinch socket
- **Max. quant.:** 4 per system
- **Article number:** 90681
- **GTIN code:** 4019377906811

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