

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/or VoIP
- Up to 112 VoIP subscriber
- Up to 112 ISDN and 64 analogue subscribers
- Up to 64 VoIP channels simultaneously, of which 38 can be configured for external use (internet telephony)
- System telephony with digital VoIP and ISDN devices from the COMfortel series
- Remote extensions with COMfortel 1400 IP, 2600 IP and 3600 IP, as well as with mobile VoIP clients and soft phones
- Internal ISDN ports for 2-wire and 4-wire technology (U_{P0} and S₀)
- Unified Messaging – central voicemail and fax system with up to 16 channels for 120 subscribers and groups max.
- Increased productivity due to supplementary smartphone apps
- Interfaces (APIs) for connecting 3rd party software, e.g. ESTOS ProCall and proprietary software
- Auto attendant, 10 destination numbers in parallel and sequential
- Address books for departments and multi-company corporations
- 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 is suitable for 19" racks, offers 38 exchange 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 rate interface, while internal participants share the VoIP, ISDN and analogue connections.

Its full potential, however, lies idle until your demands increase and your communication requirements grow. Are you hoping to enjoy 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 relevant extension into one of the COMmander 6000RX's 15 open slots. You can even tap the advantages of the "Cloud" for your company.

This high-performance server can easily be integrated into your local network which ensures that all your subsidiaries and home offices are optimally connected 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 with RJ-45 jacks, and retrofitting the system with extension modules is done directly on the front panel. As you see, this system can be designed to meet your requirements perfectly – from the smallest expansion 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)
- Automatic system-wide exchange line request
- Busy-on-busy for internal and external calls, dynamically depending on logged-in call agents
- Call through for ISDN and VoIP trunk lines
- 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 data printout (hotel) via network (PCL3)
- Call take-over (e.g. from integrated answering machine)
- Group caller lists³
- Group functions with intelligent ringing schemes (ACD functionality for call centres)
- ISDN features like CLIP, CW, AOC, CF, CCBS
- Least Cost Routing Soft-LCR for VoIP, ISDN and analogue
- 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-up
- Call diversion, follow me internal, cascadable
- Protection against attacks with blocking, black lists, monitoring
- Software interfaces
- Call barring / exception lists, 10 each for incoming and outgoing calls
- Announcement before answering unconditional / on busy, 10 announcements can be stored
- Flexible rework time for call centres
- 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 comfort 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 messages acc. to RFC 3428
- Auto provisioning and status LEDs⁶

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
- 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
- Dynamic internal/external VoIP channels

- Excellent sound quality due to optimised echo cancellation and wide-band audio with G.722⁵
- Fax over IP external (T.38 acc. ITU-T) with COMmander 8/16VoIP-R module
- Remote extensions and mobile VoIP clients integration
- Call forwarding on busy (CFB), no reply (CFNR), unconditional (CFU) at carrier trunk, configuration dependent
- MSNs in SIP-Trunk simultaneously
- 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)

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 (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

- Softphone functionality for Windows, Android and iOS
- Call setup and ending via PC, incl. Outlook plug-in
- Presence management with automatic status detection
- Instant messaging for fast information exchange
- Contact data for local user and out of external databases
- Screen sharing for convenient cooperation
- „Federation" as networking concept between external sites and companies
- Platform independent (Windows, Mac, iOS, Android)

Supplementary smartphone apps

- COMfortel Mobile Business⁵
 - Seamless integration in iOS and Android
 - Signalizing of the business number
 - Full flexibility, always reachable
- PBX Manager with
 - Switching of call forwardings
 - Log-in/-out in groups
 - Retrieving of messages

Software interfaces (APIs)

- Recalling call data via SFTP
- LAN TAPI⁴ (8 clients in scope of delivery)
- Online name search (reverse search), adaptable
- API for 3rd party software, e.g. retrieving of caller lists, call forwarding ON/OFF, configuration switching, sending of fax/voicemail, switching relays, alarm status (start, acknowledgment, timeout), hotel (room status, call list, wake-up call)

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 telephones (security by using certificates¹)
- Auto provisioning for phones of other brands^{5,6}
- Simple configuration with COMfortel IP Editor
- 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
- Project assignment of calls
- SIP comfort package brand plus incl. auto-provisioning⁶ for standard SIP phones
- System activation (necessary for the operation of the system)

1 With COMfortel 1400 IP / 2600 IP / 3600 IP

2 With COMfortel 1400 / 1600 / 2600

3 With corded COMfortel system telephones

4 Can be activated with costs or extension modules necessary

5 With system firmware 7.4 (Q2/18)

6 Autp-provisioning currently for phones made by Yealink and Snom

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/T.38 acc. ITU-T
- **Door intercom ports*:** 8 max. acc. FTZ 123 D12-0
- **Maximum load door opener relay:** 30 V, 1 A max.
- **Audio output ports*:** up to 4 connections for announcement systems via analogue ports (e.g. using the a/b Audiobox)
- **PC connection:** 1 Ethernet port 10/100 Base-T (10/100 MBit/s, twisted pair)
- **USB host V2.0** for printer or voicemail memory
- **Module slots:** 15 slots for COMmander 8VoIP-R-module(s), 16VoIP-R-module(s), PRI-R-module, 4S₀-R-module, 8S₀-R-module, 8U_{P0}-R-module, 8a/b-R-module, VMF-R-module and 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
- **Article number:** 90672

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

COMmander S2M-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

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

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

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

COMmander 8a/b-R module

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

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

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

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