

Technical Specification

VoIP-Gateway IP305

Interfaces

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| 2 x ISDN BRI | optionally configurable TE/NT mode Power over Ethernet LEDs for Link and Power Supply Step-by-step license registration |
| 2 x Ethernet: | 10/100-BASE-TX auto negotiation Power over LAN (IEEE 802.3af) Both interfaces individually addressable LED for Activity and 100Mbit Modus |
| Compact Flash | prepared for Compact Flash Cards Type I |

Hardware

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| Power supply: | Mains adapter (primary: 110-240 V, 50 Hz, 45mA, secondary: 40V DC 375mA) or Power over LAN (IEEE 802.3af) |
| Memory: | 32 MB DRAM, 16 MB Flash Remote firmware update |
| CPU: | RISC CPU for protocol processing Digital Signal Processor (DSP) for voice data processing for up to 4 channels |
| Operation environment: | Operation temperature 0°C to +45°C Humidity 10% to 90% non-condensing Storage temperature -10°C to +70°C |
| Housing: | 210 x 134 x 32 mm Can be fitted in 19" equipment using an additional frame (optional), 1 height unit |
| Weight: | 660 g |

Voice over IP

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| Internet: | IP Internet Protocol – basis for TCP and UDP, DHCP dynamic host configuration protocol |
| H.323: | H.323 version 4 H.245 fast connect Enblock dialing Overlapped sending RAS Gatekeeper routed signaling (support for external Gatekeeper) Security (encrypted password authentication H.235) |
| Supplementary Services: | H.450.1 H.450.2 Call transfer H.450.3 Call diversion H.450.4 Call hold H.450.5 Call Pick-up H.450.6 Call waiting H.450.7 Message Waiting Indication H.450.8 Name identification H.450.9 Call Completion busy (CCBS) and Call Completion no Reply (CCNR) H.450.11 Call Intrusion |
| SIP: | SIP Version 2, conform RFC 3261 RFC 2327 SDP: Session Description Protocol RFC 2396 URI generic syntax RFC 2617 Digest Authentication RFC 2782 A DNS RR for specifying the location of services (DNS SRV) RFC 2833 RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals RFC 3263 Session Initiation Protocol (SIP): Locating SIP Servers RFC 3264 An Offer/Answer Model with SDP RFC 3265 Session Initiation Protocol (SIP) - Specific Event Notification RFC 3311 UPDATE method (partial support) RFC 3325 Private Extensions to SIP for Asserted Identity within Trusted Networks RFC 3326 The Reason Header Field for the Session Initiation Protocol RFC 3420 Internet Media Type message/sipfrag RFC 3515 The Session Initiation Protocol (SIP) Refer Method RFC 3551 RTP Profile for Audio and Video Conferences with Minimal Control RFC 3578 Mapping of ISDN User Part (ISUP) Overlap Signaling to SIP RFC 3842 A Message Summary and Message Waiting Indication Event Package for the SIP RFC 3891 SIP Replaces Header |
| DTMF: | H.245 "Alphanumeric" or "Signal Type" |
| Quality of Service: | priorisation of IP packets via TOS and DiffServ VLAN priority (IEEE 802.1p / 802.1q) RTP real time protocol – for speech transport RTCP real time control protocol – first level „Quality of Service“ |
| Voice Codecs: | G.711 A-law / μ -law (64 kbps), G.723.1 (5.3 und 6.3 kbps), G.729A (16 kbps) VAD (Voice Activity Detection), CNG (Comfort Noise Generation), Dynamic Jitter Buffering |
| Echo Compensation: | G.168 |

Administration

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| Access: | via HTML/Web-Browser Password protected authentication |
| Troubleshooting: | Logs and Traces Status display of interfaces and connections PING SNMP Traps sending |
| Update: | Configuration recording/sending Bootcode and firmware update via HTML upload Automatic update via Update-Server |

Data routing

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| DSL: | PPPoE Manual/automatic connection after boot |
| VPN: | PPTP Tunneling Up to 32 tunnels simultaneously Encoding via MPPE |
| NAT: | for transformation of official IP Addresses into private IP Addresses and vice versa |

Routing of Telephone connections

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| Connections | VOIP-ISDN, ISDN-ISDN, VOIP-VOIP |
| Re-Routing | configuration of alternative routes |
| Billing: | automatic Call Detail Records (CDR) generation |
| Calling Number Mapping | |
| Automatic Dialtone generation | European and US Standard |
| HTTP Interface | plays recorded messages deposited on a web server |
| ISDN Protocols | EDSS1, QSIG |
| QSIG-Interworking | QSIG ECMA V.2 |

Additional Features

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| Time: | exact time information via time server SNTP-Client & Server |
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