



*Technical Specification*

## VoIP-Gateway IP 800

### Interfaces

4 x ISDN BRI	optionally configurable TE/NT mode Power over Ethernet LEDs for Link and Power Supply Step-by-step license registration
ISDN BRI (PPP)	optional ISDN interface in TE mode only
„Power-off“ Loop	
2 x Ethernet:	10/100-BASE-TX auto negotiation automatic recognition: Uplink / Downlink 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

Housing:	210 x 184 x 32 mm Can be fitted in 19" equipment using an additional frame (optional), 1 height unit
Power Supply:	internal mains adapter 100-240 V, 47-62 Hz, 15 W or Power over LAN (IEEE 802.3af)
Memory:	32 MB DRAM, 8 MB Flash Remote firmware update
CPU:	RISC CPU for protocol processing Digital Signal Processor (DSP) for voice data processing for up to 8 channels
Encoding:	Co-Processor prepared for DES / 3DES
Operation environment:	Operation temperature      0°C to +45°C Humidity                        10% to 90% non-condensing Storage temperature        -10°C to +70°C
Weight:	1050 g



### Voice over IP

Internet:	IP Internet Protocol – basis for TCP and UDP, DHCP dynamic host configuration protocol
Voice over IP:	H.323 version 4 incl. H. 225, H.235, H.245 and RAS Gatekeeper routed signalling, H.450 RTP real time protocol RTCP real time control protocol
Fax over IP:	T.38 real time fax
RAS protocol:	support for external gatekeeper
DTMF:	H245 Alphanumeric or Signal Type
additional VoIP-Features:	H.245 fast connect En-block dialing Overlapped sending
Quality of Service:	TOS und DiffServ IEEE 802.1p / 802.1q
Voice Encoding:	G.711 A-law / $\mu$ -law (64 kbps), G.723.1 (5.3 and 6.3 kbps), G.729A (16 kbps) G.726 (32 kbps), VAD (Voice Activity Detection), CNG (Comfort Noise Generation), Dynamic Jitter Buffering
Echo Compensation:	G.168

### Administration

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

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

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

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

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