ECOTEL® compact
VoIP model

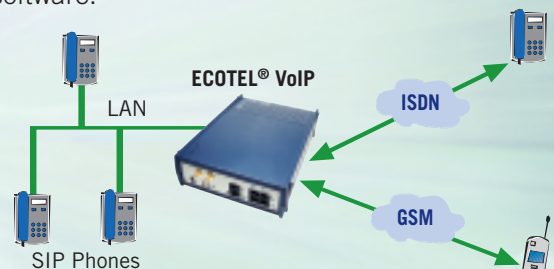## Cost-effective connectivity between IP, ISDN and GSM networks

- Cost-effective inter-connectivity IP-GSM

- Additional S_0 interfaces

- Effective least cost routing with local SIM management

- Connection of mobile sites (office containers, ships, RVs, emergency vehicles)

- Last mile concepts / Wireless local loop (WLL)

- Business continuity

The VoIP GSM Gateway ECOTEL® VoIP provides cost-effective connections between IP, ISDN and GSM networks. Intelligent local SIM management reduces connection costs by up to 70 percent.

The number of GSM channels is scalable up to a total of eight, and the GSM modules are compatible with all types of GSM networks (GSM 850/900/ 1800/1900). ECOTEL® VoIP offers a built-in antenna splitter which ensures easy installation with a maximum of two antennas. The gateway can simultaneously route up to eight IP calls to GSM.

Potential applications range from integration into an existing VoIP infrastructure and connection of mobile offices all the way to distributed installations with SIM card server integration and multiple gateways using a common configuration software.

VoIPGermany 1st place AddOns AWARD 2006

ECOTEL® VoIP with up to 8 GSM channels and 2 S_0 interfaces

LAN
ECOTEL® VoIP
ISDN
GSM
SIP Phones

SIM Card Server compatible

Quality made in Germany

Routing wizard, adaptive re-routing, call back, local SIM switching, mobile integration (mobile extension features) etc.

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ECOTEL® VoIP - The perfect add-on for any SIP-based PBX

DECT alternative

PBX extensions diverted to cell phones cause tremendous costs. ECOTEL® ISDN and ECOTEL® VoIP reduce costs by establishing cost-efficient mobile-mobile connections. Additionally they make it possible to use the PBX features switching between calls and announced call transfer from the mobile phones.

For even more PBX features use ECOTEL® VTM pro in combination with Mobile Integration solutions of leading VIERLING partners.

Besides its GSM channels (up to eight), ECOTEL® VoIP also offers two S_0 interfaces.

On the IP end, ECOTEL® VoIP is based on the session initiation protocol (SIP) standard and supports all commonly used codecs. A complete SIP server is integrated into the gateway. To configure the system a Windows program running on a PC or notebook is used. PC or notebook are connected via LAN or USB. The gateway also allows remote access via GSM. For documentation purposes, ECOTEL® VoIP saves call detail records (CDRs) with all of the important data for each connection.

Features	
Voice signalling	SIP
Codecs	G.711 PCM at 64 kbps
	G.726 E-ADPCM at 16 to 40 kbps
	G.729/Annex A CS-ACELP at 8 kbps
	G.723.1 MP-MLQ/ACELP at 6,3/5,3 kbps
Echo cancellation	G.168-2000; max. echo length 25 ms (15 ms for G.726A)
VAD (Voice Activity Detection)	G.729B für G.729A coders
CNG (Comfort Noise Generator)	G.723.1A für G.723.1 coders
Protocols	TCP, UDP, IP, RTP, RTSP, TELNET, TFTP, HTTP, SMTP
Interfaces	LAN 10/100Base-T, RJ45, USB 1.1B type
Antenna	one or two external antennas, SMA connector, one or two 4-channels-antenna splitter integrated
Administration software	comfortable administrator software, Win98 and above
Administration interfaces	LAN, USB, GSM
GSM channels	2 - 8
Voice messages	downloadable wave files
Speed calling memory	via routing entries
Operational status display	LED
Routing - incoming calls	•
Routing - outgoing calls	•
SIM switching / local SIM management	1 - 8 different SIM cards can register to one GSM module alternately
SIM card server	Integration of external SIM card server
SIP server integration	•
User registration at internal SIP server	•
Routing on external SIP server	up to 8 outbound proxies
Monitoring software	online monitoring, call and SIM statistics
MNP	Mobile Number Portability DB requests*
Call Back	•
Remote access	GSM, LAN
Call line identification CLIP	•
Generation of Call Detail Records (CDR)	•
PBX interfaces	2 ports EDSS 1, TE/NT, PtP/PtMP, ETH 10/100 (RJ45)
PC configuration	USB 1.1 B-type / LAN / GSM
Internet protocols	TCP, FTP, Telnet
Short Message Service (SMS)	•
SIM card locking	•
PC SMS/Data/Fax	LAN, USB
Power supply	100-240 V AC, 50-60 Hz, 15 V DC
Dimension	255 x 185 x 63 mm (L x B x H)
External antenna	FME/SMA

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