

ECOTEL^{VoIP}

Low-cost connection to mobile networks



- Cost-effective interconnectivity IP–GSM
- Additional S0 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 costeffective 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.

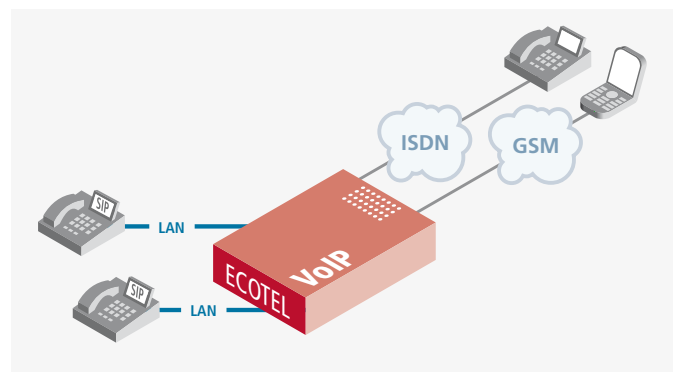
Potential applications range from integration into an existing VoIP infrastructure and connection of mobile offices all the way to distributed installations with multiple gateways.

Besides its GSM channels (up to eight), ECOTEL^{VoIP} also offers two S0 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.

DECT alternative

PBX extensions diverted to cell phones cause tremendous costs. ECOTEL^{VoIP} ISDN and ECOTEL^{VoIP} reduce costs by establishing costefficient mobile-mobile connections. Additionally the gateways make it possible to use the PBX features switching between calls and announced call transfer from the mobile phones.



Features	
Voice signaling	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 for G.729A coders
CNG (Comfort Noise Generator)	G.723.1A for 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-plug, one or two 4-channel-antenna-splitters integrated
Administration software -interfaces	Win98 and higher, 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 outgoing calls	▪ ▪
SIM switching / local SIM management	1–8 different SIM cards can register to one GSM module alternately
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	WAN, GSM (CSD)
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)	▪
PC SMS/Data/Fax	LAN, USB
Power supply	100–240 V AC, 50–60 Hz, 15 V DC
Dimension	255 × 185 × 63 mm (L × W × H)
External antenna	FME/SMA

Find out more: www.teles.com



TELES
AG
Informationstechnologien

TELES AG | HEADQUARTERS

Ernst-Reuter-Platz 8

10587 Berlin

GERMANY

Phone +49 30 399 28 - 066

Fax +49 30 399 28 - 051

E-mail sales@teles.com