

# ECOTEL<sup>®</sup> GSM

## GSM gateway with configurable VoIP – PSTN options



- Converts fixed-to-mobile calls into cost-saving mobile-to-mobile calls
- Landline Replacement
- Backup for voice through mobile connection
- Integrated SIP Server
- Toll-grade voice compression, T.38 fax support
- Email to SMS conversion
- Autoprovisioning available

### Reduce your telephony costs

Connect your current PBX to the world of Mobile and VoIP. With low per-port implementation costs, the ECOTEL GSM supports up to 4 mobile channels, 8 VoIP channels, and different telephony options.

Eliminate the expense of international calls placed from mobile phones. The ECOTEL GSM delivers Call Through and Call Back dialing and thereby maximizes your existing VoIP infrastructure.

Save time and effort during installation as a result of built-in, designed compatibility.

### Simple installation and sophisticated management

In minutes, install the ECOTEL GSM and make your first phone calls. Just connect the cables and the power and physical installation is complete. Then, use the ECOTEL GSM's Quickstart tool to complete initial configuration.

To fine-tune the routing configuration, use our GATE Manager. Finally, you can use the TELES NMS (Network Management System) for remote provisioning of bulk installations; the ECOTEL GSM can automatically receive updated routing files from the NMS.

### Savings with Least Cost Routing

Save money on every phone call. The ECOTEL GSM delivers phone-number prefix recognition. This enables the gateway to direct calls to a specific channel that contains a SIM card from the corresponding GSM network.

### Remote survivability

Protect your ability to make phone calls. If your office is disconnected from its VoIP network server, ECOTEL GSM can route both interoffice calls and PSTN calls. IP phones continue to function thereby sustaining your productivity.

Also the ECOTEL GSM can replace your landline.

## CAPABILITIES

<b>Scalability</b>	4 GSM /GPRS channels 1 SIM per channel or vGATE SIM server (optional) 1 Extension Module (FXS, FXO, BRI, LCR) 8 VoIP channels
<b>VoIP codecs</b>	G.711, G.723, G.726, G.728, G.729, GSM
<b>Fax support</b>	T.38, fallback to G.711
<b>Echo cancellation</b>	G.168 – 2002, 128 ms tail length
<b>DTMF</b>	RFC 2833, SIP/H.323 info, inband
<b>VoIP quality</b>	Configurable ToS, Diffserv, VLAN Silence suppression, VAD, CNG, G.729B QoS alternative routing based on ASR, fraction lost, jitter, and roundtrip delay. Traffic shaping Dynamic PSTN fallback (IntraStar patent)
<b>Call routing</b>	Time-dependent routing Multilevel alternative routing 5000 routing entries ENUM support Database managed routing Support for multiple gatekeepers, H.225 (v4) Support for multiple registrars Overlap/en-bloc conversion RFC 3578 Digit manipulation Black/white list
<b>Advanced</b>	Integrated SIP registrar and location server (Metering tone (12/16 kHz) → only FXS) Integrated callback/two-stage-dialing server Integrated DSL router (PPPoE) Integrated IP router via GPRS DHCP server and client Firewall support VPN support CLIP RTP multiplex bandwidth reduction STUN support Symmetric RTP (COMEDIA) Radius support
<b>GSM specific</b>	Full vGATE SIM Server support (optional) Alert/busy tone detection Announcement recognition E-mail to SMS conversion QoS routing: automatic blocking of GSM ports based on ASR, announcements or network errors

## PROTOCOLS

<b>Mobile</b>	GSM quadband 850/900/1800/1900 MHz
<b>VoIP</b>	SIP (RFC 3261), H.323 (v4)
<b>ISDN</b>	DSS1 (Q.931, national variants), Q.SIG-BC TE/NT, PP/PMP (BRI only)

## SYSTEM MANAGEMENT

Remote access via IP with NMS or GATE Manager
HTML configuration interface
SNMP (alarm management)
Call Detail Records (CDRs)

## CONNECTION SPECIFICATIONS

<b>Ethernet</b>	2 × Ethernet 10/100 Base-T RJ-45
<b>Analog</b>	4 ports RJ-11 (optional)
<b>ISDN</b>	2 ports RJ-45 (optional)
<b>Antenna</b>	SMA (1 antenna for 4 channels)

## PHYSICAL PARAMETERS

<b>Size (W × H × D)</b>	280 mm × 38 mm × 138 mm
<b>Material</b>	ABS, black
<b>Mounting</b>	Desktop, wall
<b>Power supply</b>	Wall power supply, 12 VDC, 1,6 A

## ENVIRONMENTAL CONDITIONS

<b>Temperature</b>	+5°C to +40°C
<b>Humidity</b>	5 % to 80 % (non-condensing)

## CERTIFICATES

EMC, Safety, CE, FCC

VoIPBox	GSM ports	VoIP ports	FXS ports	FXO ports	BRI ports
GSM	2/4	8	–	–	–
GSM FXS	2/4	8	4	–	–
GSM LCR	2/4	8	2	2	–
GSM BRI	2/4	8	–	–	2
GSM FXO on demand	4	8	–	4	–



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