

ECOTEL® multichannel Model VTM pro

The next generation GSM / CDMA / 3G multichannel gateway system

4yourmobile
communication

- Integration by SS7 or VoIP
- Connection for dial-up applications
- Last mile connection via GSM/3G
- Least cost routing for termination of mobile calls
- Mobile backup solutions / Business continuity
- VPN connection of two corporate networks
- International roaming via powerful least cost router
- GSM / CDMA / 3G connectivity for objects in motion (e.g. river cruise ships, trains)
- Text message to email conversion

The ECOTEL® VTM pro GSM / CDMA / 3G gateway system allows to route calls and transmit SMS messages directly from fixed into mobile networks and vice versa.

Customers can take full advantage of the more favourable mobile to mobile rates. Costs for calls from fixed to mobile and vice versa can be reduced by up to 70%.

Due to the advanced integration of all basic functions into one system, installation and operating costs are remarkably low (comfortable change

of the SIM cards by PCMCIA-SLOT technology or SIM card server integration). The system also optimizes the utilization of capacity of the mobile radio resources by using two redundant channels.

In any case VTM pro meets professional standards with optional SS7 signaling and additional network management.

Furthermore enterprises can use VTM pro as a multifunctional platform for several customizable applications.



VIERLING

Up to 32 channels in one 19" rack-mount industrial PC



TECHNICAL OVERVIEW

Interfaces/ Supported Protocol	PRI: Q.931, DSS1, NI2 (optional), SS7-ISUP (optional), E1/T1, TE/NT, CRC4/Double Frame VoIP: H.323 signaling; G.711, G.729; SIP (option), G.726, G.723.1 GSM: • Dual band (900/1800 MHz) • Triband (900/1800/1900 MHz or 850/1800/1900) • 1 antenna per 16 channels or 1 antenna per 32 channels • 2 SIM cards per GSM channel (optionally 4, 8 or SIM Card Server) 3G: • Support of UMTS/WCDMA networks • 1 antenna per 16 channels • Each expansion has to be equipped with 8 Motorola A835 mobiles (the A835 is not included in the shipment) CDMA: • by Motorola V810 • embedded solution for RUIM cards supports CDMA 2000 and AMPS (850 MHz/1900MHz)
Expansion Levels	• Modular expansion in steps of 4 x GSM channels or 8 x UMTS channels • Up to 32 x GSM or 3G channels, 4 x PRI and 1 x IP interface per chassis • Several VT MultiChannel chassis per site (cascadable via PRI cables)
Signaling	Alert tone detection: – Generation of ALERT/CALL PROGRESS (user free) Announcement recognition and programmable options: – Generation of PROGRESS/CALL PROGRESS (in-band) (default) – Generation of RELEASE with configurable cause value – Generation of CONNECT (when call is accepted) Busy signal recognition: – Generation of DISCONNECT/RELEASE
Features	• Mobile channel groups with various terminal configuration strategies • Conversion of overlap sending → enblock sending • Generation of charging information • Call Detail Records (CDR) • Least Cost Routing (LCR) • Alternative routing • Monitoring of time quotas for each GSM channel • Monitoring and rerouting in case of GSM channel failure • Evaluation and alteration of destination number • Routing variations CLIP/CLIR • GSM statistic functions • Field strength measurement • Option for installation of 3G/CDMA and GSM channels • SS7-ISUP protocol (optional) • LINUX based gateway platform • Mail/SMS converter is implemented as script
Management	One Access software for all interfaces: • One configuration for all GSM/3G-channels • Remote management access via IP • Monitoring, management and configuration via remote maintenance • Remote management software available in Windows and LINUX version • Integrated trouble-shooting tools • Automatic fault alarm notification • Configuration and maintenance during operation
Specifications	Chassis: 19" rack-mount industry PC Dimensions: 4 U (555 x 440 x 177 mm) for VTM + 2 U per 8 3G channels Weight: 20 kg for VTM + 8kg per 8 3G channels Humidity: 70% non condensing Temperature: 35 °C Power consumption: 100 W + 1 W per GSM channel + 2 W per UMTS channel Fuse: 16 A



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When using mobile radio gateways for carrier applications (termination), you are solely responsible for compliance with all applicable country-specific laws and regulations.