

# ECOTEL® multichannel Model VTM pro

## The next generation GSM / CDMA\* / 3G multichannel gateway system

4yourmobile  
communication

- Combined cellular, PSTN and VoIP gateway system
- Termination of mobile calls
- Text message to email conversion
- Last mile connectivity via GSM / CDMA\* / 3G
- GSM / CDMA\* / 3G connectivity for objects in motion (e.g. river cruise ships, trains)
- Mobile backup solutions / Business continuity
- Connection for dial-up applications

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.

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 customizable applications.



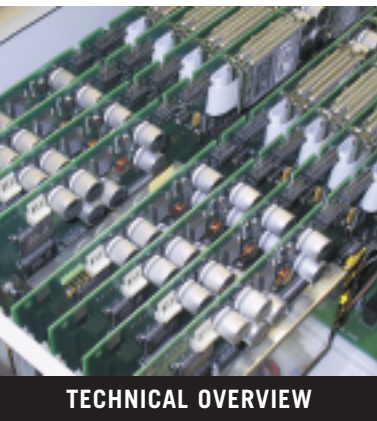
SIM Card Server  
compatible

Quality made in  
Germany

Seamless integration  
via PRI or VoIP

\*on request

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**TECHNICAL OVERVIEW**

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

## Interfaces / Supported Protocol

<b>PRI:</b>	Q.931, DSS1, NI2 (optional), SS7-ISUP (optional), E1/T1, TE/NT, CRC4/Double Frame
<b>VoIP:</b>	H.323 signaling; G.711, G.729; SIP (option), G.726, G.723.1
<b>GSM:</b>	<ul style="list-style-type: none"> <li>• PC plug-in card (4 channels)</li> <li>• Dual band (900/1800 MHz)</li> <li>• Triband (900/1800/1900 MHz or 850/1800/1900)</li> <li>• 1 antenna per 16 channels or 1 antenna per 32 channels</li> <li>• 2 SIM cards per GSM channel (optionally 4, 8 or SIM Card Server)</li> </ul>
<b>3G:</b>	<ul style="list-style-type: none"> <li>• PC plug-in card (4 channels)</li> </ul>
<b>CDMA:</b>	<ul style="list-style-type: none"> <li>• PC plug-in card (4 channels)*</li> </ul>

## Expansion Levels

- Modular expansion in steps of 4 x channels GSM, 3G, CDMA\*
- Up to 32 x GSM, 3G or CDMA\* channels, 4 x PRI and 1 x IP interface per chassis
- Several VT MultiChannel chassis per site (cascadable via PRI cables)

## Signaling

<b>Alert tone detection:</b>	– Generation of ALERT/CALL PROGRESS (user free)
<b>Announcement recognition and programmable options:</b>	– Generation of PROGRESS/CALL PROGRESS (in-band) (default) – Generation of RELEASE with configurable cause value – Generation of CONNECT (when call is accepted)
<b>Busy signal recognition:</b>	– 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 channel
- Monitoring and rerouting in case of 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
- Integrates external whitelists

## 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

<b>Chassis:</b>	19" rack-mount industry PC
<b>Dimensions:</b>	4 U (555 x 440 x 177 mm) for VTM
<b>Weight:</b>	20 kg for VTM
<b>Humidity:</b>	70% non condensing
<b>Temperature:</b>	35 °C
<b>Power consumption:</b>	100 W + 1 W per GSM channel + 2 W per UMTS channel
<b>Fuse:</b>	16 A

\* on request

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

Subject to technical change 09/07-V-0

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