PIKA WARP Appliance Datasheet
GSM Module

PIKA TECHNOLOGIES INC.

For Asterisk® / FreePBX® developers requiring GSM connectivity for wireline replacement, Least Cost Routing (LCR), or SMS notification, PIKA now offers a GSM module for the WARP Appliance for Asterisk®. The GSM module provides two GSM channels/radios per module and uses two externally accessible SIM cards. The module can work in combination with other WARP Appliance expansion modules (FXO, FXS, BRI).

Applications & Benefits

- **Cost savings with Least Cost Routing (LCR)** - For calls between landline and GSM or between different GSM networks, which can be very expensive, the FreePBX dial plan can be configured with a prefix that, when dialed, will route calls placed from a SIP or analog telephone over a GSM trunk.
- **Back-up** - Should the landline network go down, GSM can be used as a cost-effective backup.
- **Landline Displacement** - For wireless carriers looking to build incremental traffic on their networks by displacing traditional telephone company landlines, WARP with GSM trunk connectivity provides a unique small/medium business telephone system option.
- **Remote and Temporary Installations** – WARP with GSM is an excellent option for the installation of business telephone systems in remote areas where traditional, wired telephone lines may not be available, or may have extended installation intervals. It can also be a great option for temporary installations.
- **Increased productivity with SMS voicemail notification** - No longer does a user need to continually check voicemail for that important message. Upon receipt of a voicemail, the owner of the mailbox can receive an SMS message that he or she has a new voicemail.

Features

- two quad-band GSM channels/radios per module
- support for 2 SIM cards - externally accessible
- two modules per WARP
  - GSM module can be combined with analog trunks (FXO), analog stations (FXS) or BRI trunks
  - no external power supply required
    - average power consumption = 1W per module
    - 3V, 1.8V SIMs supported
- supports incoming and outgoing voice calls for PBX, Auto Attendant, IVR and other telephony applications
- supports SMS *send*
- supports incoming caller ID
- WARP Appliance LCD display shows trunk status (circuit type and status: busy, available, ringing)
- DTMF detection for Auto Attendant, IVR and voicemail applications
- FreePBX GUI support
- full text-based Asterisk dial plan supported

Simultaneous Calls/Traffic

Call Densities Total = 45 Simultaneous Call Units per WARP

SIP to SIP = 1 call unit weighting

GSM to SIP = 2 call unit weighting

TDM to SIP = 5 call unit weighting

TDM to GSM = 6 call unit weighting

TDM to TDM = 9 call unit weighting

Examples		
Scenario 1	4 GSM to SIP Calls	Total Call Units -
	37 SIP Calls	8 + 37 = 45
Scenario 2	2 GSM to SIP Calls	Total Call Units -
	4 TDM* to SIP Calls	4 + 20 + 21 = 45
	21 SIP Calls	

*Note: TDM = analog trunk or BRI

Regulatory Approvals

- CE

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