MATRIX
TELECOM | SECURITY

SARVAM UMG:

The High-density Universal Media Gateway

MATRIX

TELECOM SOLUTIONS

Researched, Designed &
Manufactured in
INDIA

50+ Countries | 1M+ Customers

Customer Expectations

Complete Flexible Solution

Any-to-Any Network Call Routing

Open Standard SIP Support

Minimized Downtime in Case of Failure

Why MATRIX SARVAM UMG?

Complete Flexible Solution

Connectivity on A Single Platform

Localizing Fault Points

100% Non-Blocking Architecture

Reduce Network Complexity

Minimized Downtime in Case of Failure

Real-time Fault Monitoring

Increased Productivity

Improved Employee Efficiency

SARVAM UMG INTRODUCTION

Gateway Functions

- Gateway Acts as a Proxy
- Stand-alone Device that Exchange Information between Two Different Medias/Networks
- Transition Point between Two Medias/Networks having Different Protocols
- Necessary Protocol Translation for Devices to Communicate between Two Medias/Networks

SARVAM UMG Overview

- High-Density VOIP-T1 E1 ISDN PRI Gateway
- High-Density VOIP-FXO-FXS Gateway
- Multi-Port GSM-VOIP Gateway
- Multi-Port GSM-T1 E1 ISDN PRI Gateway
- Multi-Port GSM-FXO-FXS Gateway

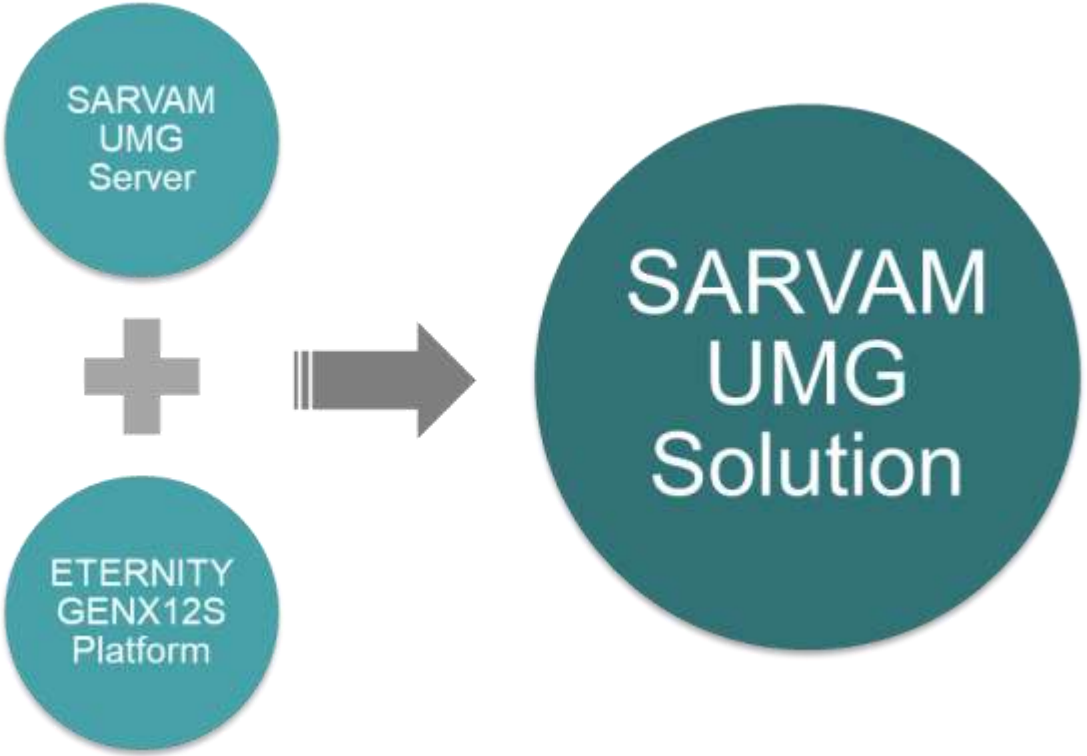
Key Differentiators

- Up to 128 VOIP Channels and 48 GSM SIMs
- Up to 8 T1E1 PRI Ports
- Up to 192 FXO ports
- Secured transporting of SIP messages and speech over TLS and SRTP
- Manage/Monitor/Audit/Detect network faults using SNMP

Target Customers

- Enterprises
- Call Centers
- Call Terminators
- Service Providers

SARVAM UMG Architecture



ETERNITY GENX12S

- 250W AC/DC PS + 12 Universal Slots + CPU
- On-board VOIP Module Provision
- Optional – DAUGHTER BOARD MODULE for VOIP (VOCODER) Channels on CPU
- Gigabit for LAN and WAN
- IPv6 Ready
- 19” Rack mountable 4U enclosure
- FXS/FXO/GSM/T1E1PRI Interface Cards support of ETERNITY GE

SARVAM UMG

- High-density Specialized Gateway Software
- Stand-alone Scalable Gateway to cater different Media Networks requirement
- Health Monitoring of Gateway using SNMP
- Secured Communication over TLS and SRTP
- Easy Configuration

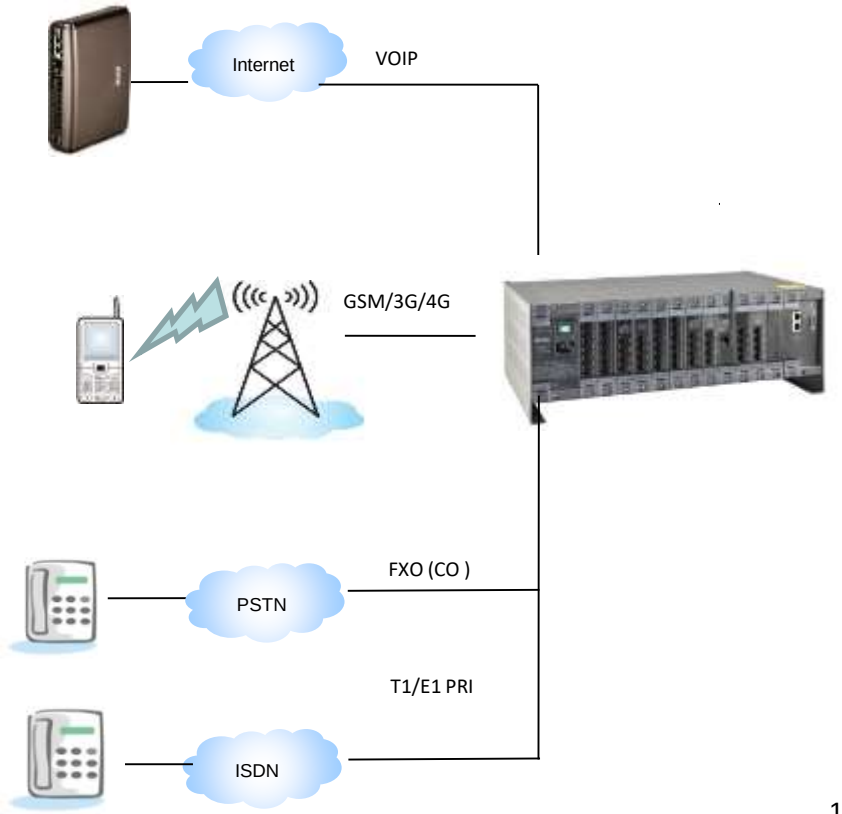
Benefits of SARVAM UMG

- Seamless Call Handling Between Multiple Networks
- Transparent Operation
- Compatible with Existing PBX
- Easy to Implement and Integrate
- No Need to Make any Changes in Existing PBX
- Reduced Telephony Cost
- Matrix SARVAM UMG provides Universal Platform for all Telecom Networks like VOIP, GSM/3G/4G, T1/E1 PRI and FXO(CO/TWT)

Universal Media Gateway

Trunk Interfaces

- VOIP (SIP)
- GSM/3G/4G
- T1/E1 ISDN PRI
- FXO (CO/TWT)



Gateway Applications

- PBX Gateway
- Multi-Port GSM- T1 E1 ISDN PRI Gateway
- High-density VOIP-T1 E1 ISDN PRI Gateway
- Gateway for TDM PBX
- Gateway for IP-PBX
- ITSP (SIP Trunking) Service Providers
- Call Centre
- Calling Card Operators/Call Terminators

GSM – T1/E1 ISDN PRI Gateway

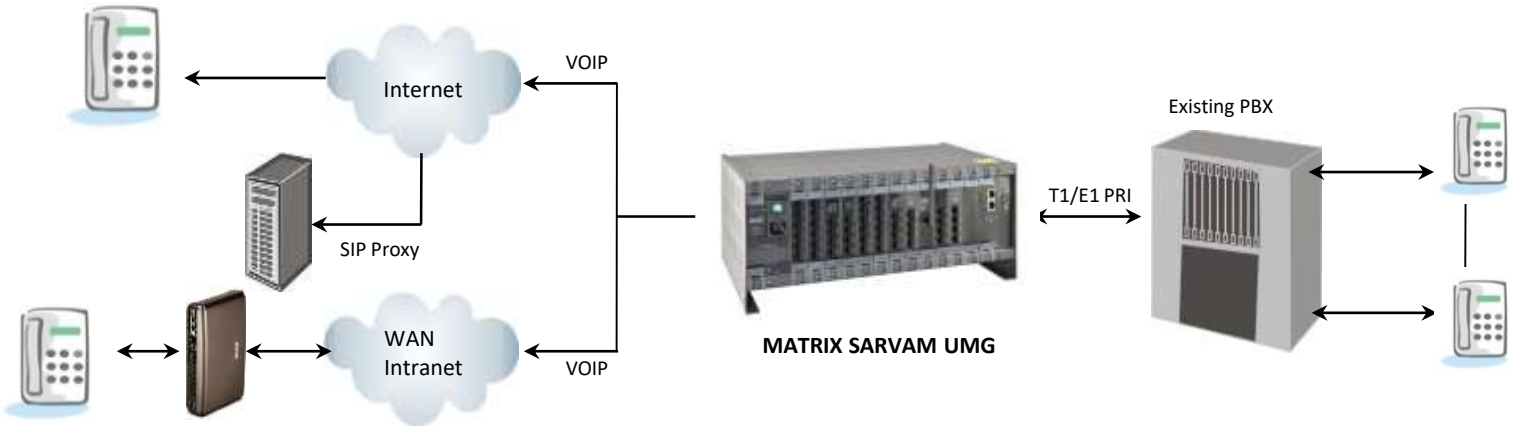
- Integrate your Existing PBX through T1/E1 ISDN PRI
- Up to 48 GSM SIMs
- Easy to Implement and Integrate
- Seamless Call Handling
- Avail Benefits offered by GSM Network
- Route CUG Calls to CUG SIMs Inserted
- Penta Band Support

GSM – T1/E1 PRI Gateway

VOIP-T1/E1 PRI Gateway

- Integrate your PBX throughT1/E1 PRI
- Up to 8 T1/E1/PRI
- Up to 128 VOIP Channels
- SIP based VOIP
- Supports VOIP Proxy Calls (250 SIP Accounts)
- Supports Peer-to-Peer Calls
- Easy to Implement and Integrate
- Seamless Call Handling
- Avail Benefits of Low-cost Internet Telephony

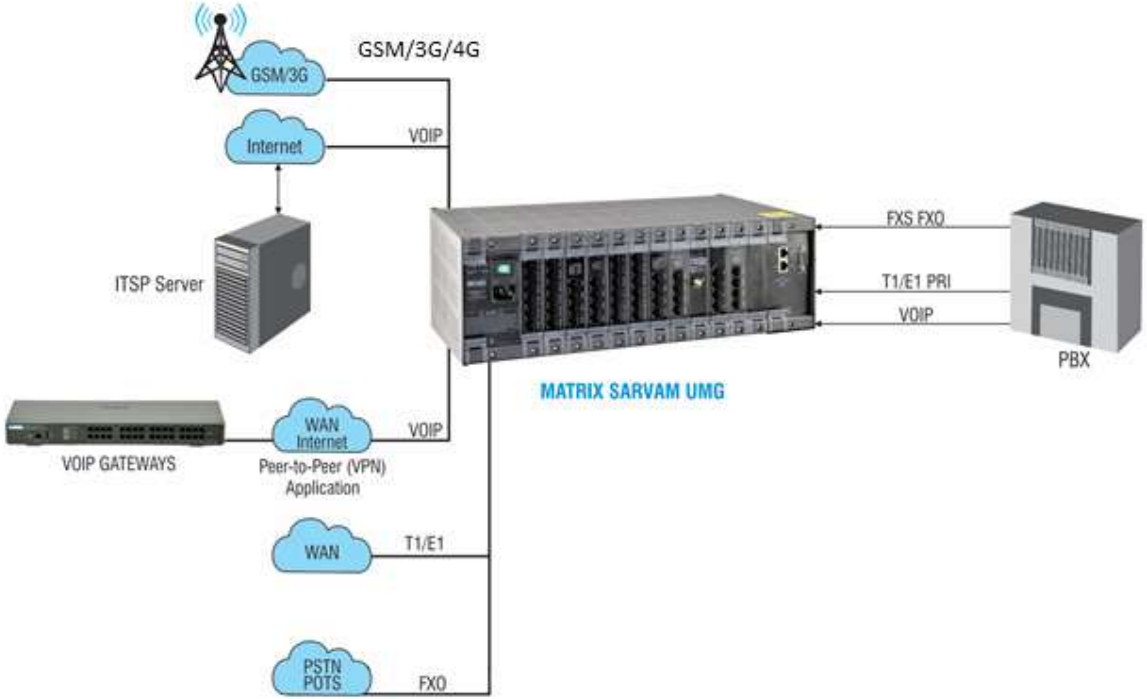
VOIP-T1/E1 Gateway



Gateway for TDM PBX

- Integrate to TDM PBX through any Available Interfaces Like FXS-FXO , T1/E1 PRI and VOIP
- No Need to Make any Changes in Existing PBX
- Easy to Implement and Integrate
- Seamless Call Handling between Multiple Networks
- Avail Benefits offered by Different Networks

Gateway for TDM PBX

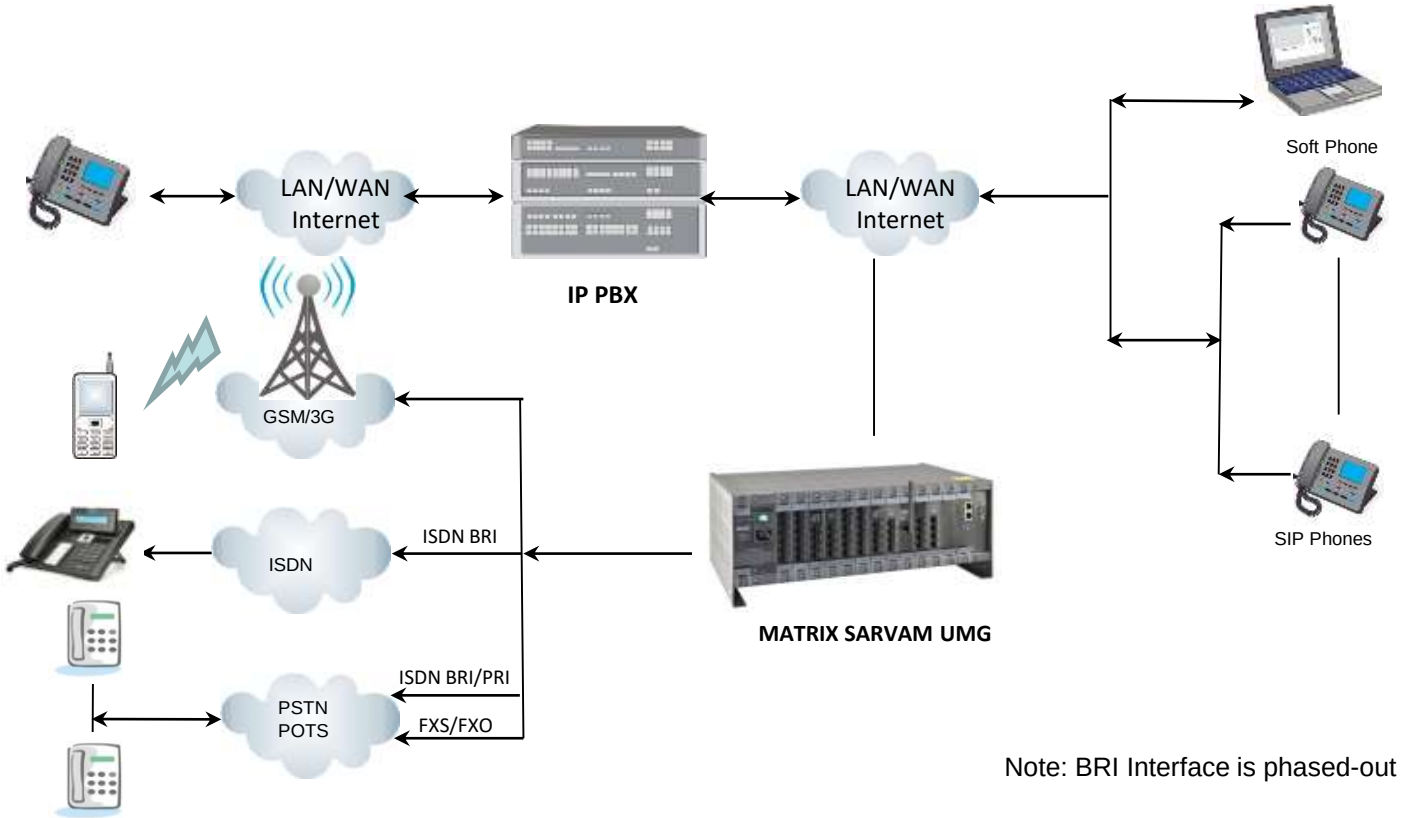


UNIVERSAL MEDIA GATEWAY FOR TDM PBX

Gateway for IP PBX

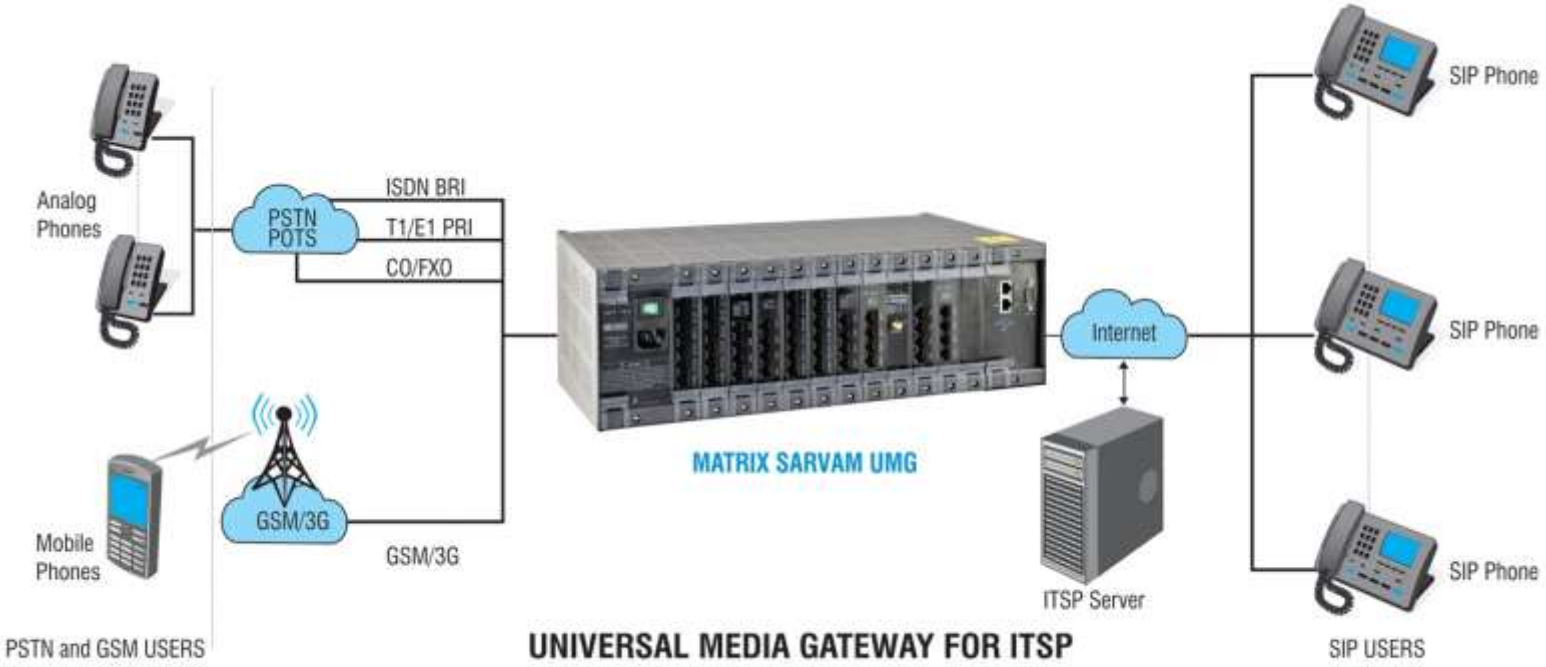
- Offers VOIP Interface through which it can be registered with Existing IP PBX to avail network interfaces such as GSM/3G/4G, FXS-FXO and T1/E1/PRI
- No Need to Make any Changes in Existing PBX
- Easy to Implement and Integrate
- Seamless Call Handling between Multiple Networks

Gateway for IP PBX



Note: BRI Interface is phased-out from Matrix

Gateway for ITSP



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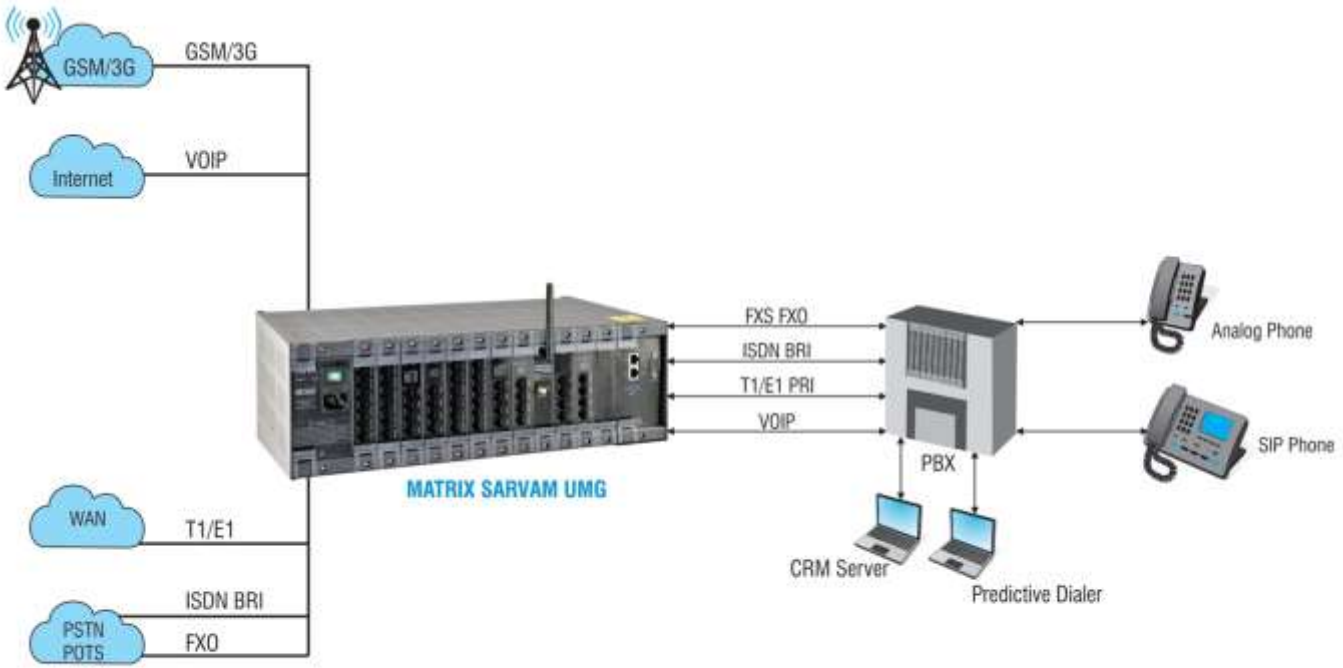
Gateway for Call Centers



UNIVERSAL MEDIA GATEWAY FOR CALL CENTRE

Note: BRI Interface is phased-out from Matrix

Solution Overview

System Resources	Description	SARVAM UMG (ETERNITY GENX) Max. Resources
Universal Slots	For Interface Expansion Cards (except VOIP and VMS)	12
SIP Trunks	SIP Trunks (Clients) for ITSP or Peer-to-Peer	250
VOIP Channels	VOIP Channels for simultaneous calling with transcoding	128
NX DBM VOCODER64	DAUGTHER-BOARD MODULE on CPU for VOCODER (VOIP) Channels	2
GSM/3G/4G Ports	GSM/3G/4G Network	48
T1/E1 PRI Ports	T1 or E1 or ISDN PRI Network or Compatible Device	8
FXO Ports	Two Wire Trunk (CO) Lines	192
FXS Ports	Single Line Analog Telephones	240*

* The maximum number of simultaneous off-hook FXS ports supported are 120

Who Are We

1 Million+	2,500+	60+	50+
Customers	Partners	Products	Countries

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THANK YOU!

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