Researched, Designed &
Manufactured in
INDIA
50+ Countries | 1M+ Customers

MATRIX ®
TELECOM SOLUTIONS

ETERNITY PENX

IP-PBX System for SOHO and SMB

ETERNITY PENX

The modern growing businesses often face bigger challenges than those faced by the established and large entities. These small-sized organizations need to be more agile and productive with limited resources.

With that idea, we present this modern Phone system that is tailor-made for small and medium businesses. Designed to maximize the reachability and accessibility of an organization, this device boosts productivity.
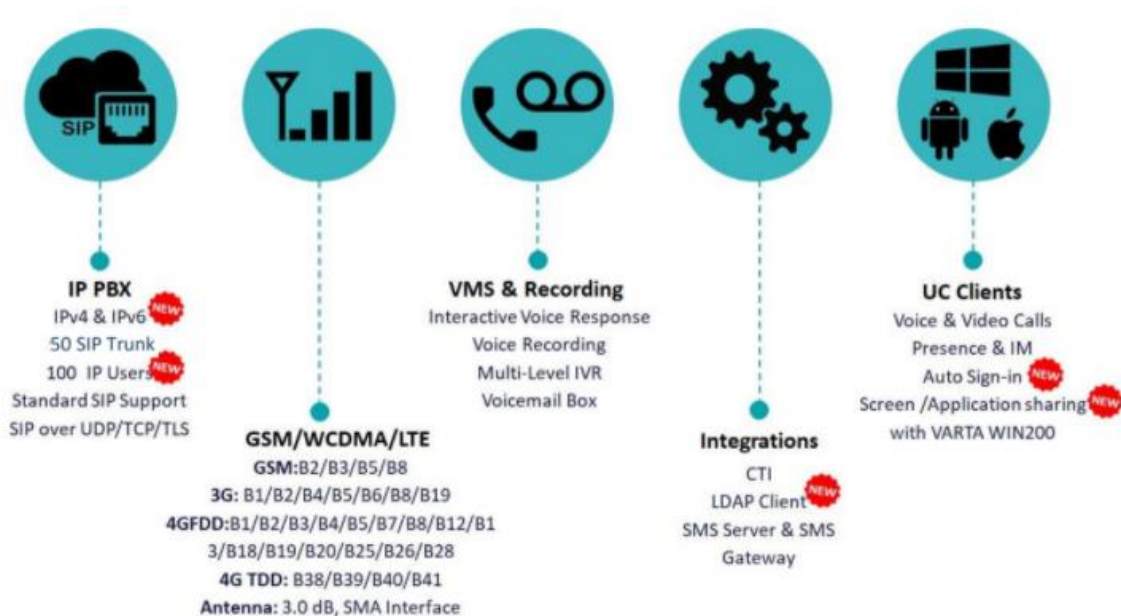
OVERVIEW

ETERNITY PENX is a product designed for the SMB market segment. It is an integrated IP-PBX with seamless mobility. The new PENX platform offers higher RAM and Flash with enhanced features of SARVAM application. In addition to this, with SARVAM application, the user will also get benefits of advanced features such as VMS V7, VARTA and much more.

The hardware upgradation with "VoIP DSPs" helps the user to increase the number of SIP users and enhance other existing functions to offer better products in the market.

This all-new device offers IP users up to 100 with a license fee. However, to provide convergence with traditional technology, PENX now runs on SARVAM UCS platform. So, it will allow customers to access new features of SARVAM which was not available in ETERNITY.

Key Features

IP PBX
IPv4 & IPv6 NEW
50 SIP Trunk
100 IP Users NEW
Standard SIP Support
SIP over UDP/TCP/TLS

GSM/WCDMA/LTE
GSM:B2/B3/B5/B8
3G: B1/B2/B4/B5/B6/B8/B19
4GFDD:B1/B2/B3/B4/B5/B7/B8/B12/B1
3/B18/B19/B20/B25/B26/B28
4G TDD: B38/B39/B40/B41
Antenna: 3.0 dB, SMA Interface

VMS & Recording
Interactive Voice Response
Voice Recording
Multi-Level IVR
Voicemail Box

Integrations
CTI
LDAP Client NEW
SMS Server & SMS
Gateway

UC Clients
Voice & Video Calls
Presence & IM
Auto Sign-in NEW
Screen /Application sharing NEW
with VARTA WIN200

Product Offerings

ETERNITY PENX	
Application license	SARVAM UCS SMB
Free IP USER	5
Free VoIP Channel	4
Free VMS Channel	4

Note:
- Above table indicates Product Offering with ETERNITY PENX and SARVAM UCS SMB license
- Free IP USER can only be used when NX DBM VOCODER64 is installed in ETERNITY PENX
- Free VoIP Channel can only be used when NX DBM VOCODER64 is installed in ETERNITY PE
- Free VMS Channel can only be used when NX DBM VMS64 is Installed in ETERNITY PENX.

Technical Specifications

System Capacity	ETERNITY PENX
Universal slots	6
FXS Ports (SLT)	48
DKP Port	16
IP User	100
FXO Ports (CO)	16
PRI ports	2
GSM/3G/LTE Ports	8
SIP Trunks	50
Max. VoIP Channel	64
Max. VMS Channel	16
Max. IP to IP Call (Transcoding)	32
Max. IP to IP Call (DRTP/Relay RTP)	64
Max. IP to TDM Call	64
Max. TDM to TDM	Non-Blocking
No of Voice Module	16
Simultaneous Voice Module Playback	5
Max. Audio conference Participants (System Wide)	48
Max. Audio conference Participants (In a single Multi-Party Conference)	15
Max. Number of Simultaneous 3-party conference	16
VoIP Protocol	SIP, SDP, RTP, SRTP
Network Protocol	IPV6, IPV4, TCP, UDP, VLAN, DHCP, PPPoE, QoS, STUN
Transport Protocol	UDP, TCP, TLS
Codec	G.711(A-law, μ-law), G.723,G.729AB,GSM-FR,iLBC
DTMF	RTP(RFC2833), SIP Info, IN-Band
LAN	Gigabit port
WAN	Gigabit port
Voicemail	Yes
Call Recording	2170 Hr.
Max. External Storage	32GB
Inter USB Port	1
External USB Port	1
Environment	**Operation Range:** 0°C to 45°C, **Storage Range:** -20°C to +70°C, **Operating Humidity:** 5-95% RH Non-Condensing
Mounting	1U Rack Mount

Supported Features

Call Features		
Abbreviated Dialling	Call Toggle	Internal Call Restriction
Access Codes	Call Transfer	Last Caller Recall
Account Codes	Conference-3 Party	Last Number Redial
Alternate Number Dialling	Conference-Multiparty	Intercom
Auto Answer	Dial-In Conference	Live Call Supervision
Auto Call Back (ACB)	Department Call	Macros
Auto Redial	Dial by Name	Mobility Extension
Automatic Number Translation	Distinctive Rings	Multi-Stage Dialling
Barge-In	Do Not Disturb (DND)	Mute
Busy Lamp Field for Trunks	DSS Call Pick-Up	Number Lists
Call Back on Trunk Ports	Dynamic Lock	OFF-Hook Alert
Call Chaining	Emergency Conference	One-Touch Transfer
Call Duration Display	Emergency Detection and Reporting	Paging
Call Forward	Emergency Dialling	PIN Dialling
Call Forward-Remote	Flexible Numbers	Pre-set Call Forward
Call Forward-Scheduled	Follow Me	Quick Dial
Call Forward-When Not Registered	Forced Answer	Raid
Call Hold	Forced Call Disconnection	Reminder
Call Park	Handover and Handoff	Shared Call Appearance
Call Logs	Hotline	Conflict Dialling
Call Pick Up	Hot Desking	Call Progress Tones

Advance Features		
Auto Attendant	Daylight Saving Time (DST)	Room Monitor
Conversation Recording	LDAP	Static Routing Table
Day-Night Mode	Direct Dialling-In (DDI)	System Configuration
COSEC Integration	Logical Partition	Call Taping
BCCH Selection	Music on Hold (MOH)	Time Zone Display
AC Impedance Test	Real-Time Clock (RTC)	Alarms
Holiday Table	PC/Laptop Telephony Integration	Direct Inward System Access (DISA)
Direct Station Selection Console	Auto Sign-In for Softphones	License Management
Gain Settings	Remote Programming	Presence Sharing
SMTP	Cancel All Station Features	Selective Port Access
Flash Timer	Extended IP Phone/VARTA UC Client - Operation	Self-Ring Test
SMS Gateway	Power Fail Transfer	SIM Card Balance and Recharging
Apple Push Notification Service Support	Uploading Custom MoH	RCOC (Return Call to Original Caller)

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Call Routing / Trunking

Closed User Group (CUG)	Closed User Group with Exchange ID	Dial Plan for SIP Extension
Least Cost Routing	Trunk Auto Answer	Trunk Call Waiting
Trunk Reservation	Class of Service (COS)	CLI Based Routing

Cost Management

Call Budget on Extension	Call Cost Calculation (CCC)
Call Budget on Trunk	Call Cost Display
Call Duration Control (CDC)	Toll Control

Station Message Detail Recording (SMDR)

Station Message Detail Recording-Online	Station Message Detail Recording-Report
Station Message Detail Recording-Posting	Station Message Detail Recording-Storage

SMS Server

Bulk SMS	SMS Server - Mail Settings	SMS Server Reports
SMS Routing	SMS/Email Group	SMS over IP

Other Features

Accessing your Mailbox	Recording Conditional Greetings	Accessing the General Mailbox
Alarms and Reminders	Message Verification	Forwarding Messages
VMS DISA Login	Message Notification	Email Based Notification
Sending Messages	Mailbox Settings	Message Wait Notification via Call
Redirecting Message	Listening to Messages	Dial by Name
Auto & Scheduled Backup of VMS	Leaving a Message	Dial by Extension Number

Maintenance & Troubleshooting

System Activity Log	System Security	VoIP Debug
System Fault Log	Configuration Backup/Restore	VMS Debug
System Log Notification	Firmware Management	System Details
System Debug	Default Settings	PCAP Trace
Restart the System	Network Diagnosis	Network Drive Settings

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Product Licensing

License	Description
SARVAM UCS SMB	License for unified communication server for a small medium business running on eternity PENX.
SARVAM HOSPITALITY SMB	License for hospitality functions suite for SARVAM UCS SMB to support hospitality functions and features used in a hotel motel.
SARVAM HOSPITALITY E911 SMB	License for SARVAM UCS SMB to enable dialling of emergency number 911 to enable dialling of emergency number 911 in the hospitality mode.
SARVAM PMS SMB	License for property management system interface for SARVAM UCS SMB to connect with 3rd party property management system (PMS) used in a hotel-motel.
SARVAM QSIG SMB	License for QSIG interface for SARVAM UCS SMB to connect with other matrix or 3rd party PBX for seamless calling and interworking of certain PBX features.
SARVAM CTI SMB	License to enable CTI (TAPI 2.2) functionality FOR SARVAM UCS SMB to connect to 3rd party CTI application.
SARVAM GATEWAY SMB	License for SARVAM UCS SMB to support gateway functions in addition to UCS functions. This license allows using SARVAM as UCS and gateway simultaneously. This is different from a dedicated UMG gateway application.
SARVAM VOCODER CHNL4	License for activating 4 vocoder channels. Common for all SMB, SME and ENT UCS servers.
SARVAM VOCODER CHNL16	License for activating 16 vocoder channels. Common for all SMB, SME and ENT UCS servers.
SARVAM VMS CHNL4	Licence for activating 4 VMS channels. Common for all SMB, SME and ENT UCS servers.
SARVAM IPSUB5	License for 5 IP subscribers for SARVAM UCS to create 5 VOIP subscribers. Common for all SOHO, SMB, SME and ENT UCS servers.
SARVAM IPSUB10	License for 10 IP subscribers for SARVAM UCS to create 10 VOIP subscribers. Common for all SMB, SME and ENT UCS servers.
SARVAM IPSUB50	License for 50 IP subscribers for SARVAM UCS to create 50 VOIP subscribers. Common for all SMB, SME and ENT UCS servers.
SARVAM VARTA USER5E	License for 5 VARTA UCS soft clients with essential features. SARVAM UCS SMB needs this license to register android/iOS/windows UCS clients. This license is not required for hard IP-phones. Common for all types of SOHO, SMB, SME and ENT UCS servers.
SARVAM VARTA USER10E	License for 10 VARTA UCS soft clients with essential features. SARVAM UCS SMB needs this license to register android/iOS/windows UCS clients. This license is not required for hard IP-phones. Common for all types of SMB, SME and ENT UCS servers.
SARVAM VARTA USER50E	License for 50 VARTA UCS soft clients with essential features. SARVAM UCS SMB needs this license to register android/iOS/windows UCS clients. This license is not required for hard IP-phones. Common for all types of SMB, SME and ENT UCS servers.
SARVAM VARTA USER5P	License for 5 VARTA UCS soft clients with professional features. SARVAM UCS SMB needs this license to register android/iOS/windows UCS clients. This license is not required

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SARVAM VARTA USER5C	License for 5 VARTA UCS soft clients with collaboration features. SARVAM UCS SMB needs this license to register android/iOS/windows UCS clients. This license is not required for hard IP-phones. Common for all types of SOHO, SMB, SME and ENT UCS servers.
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SARVAM SMS SERVER SMB	License for SARVAM UCS SMB to enable SMS server functionality to connect any email client and send/receive email to SMS and vice versa over gsm sim installed on gsm interface card.
SARVAM SMS GATEWAY SMB	License to enable SMS Gateway functionality for SARVAM UCS SMB to connect to 3rd party SMS Gateway Client (SMPP v3.4) to send/receive SMS over GSM SIM installed on GSM interface card.

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About Matrix

Established in 1991, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. Matrix, an innovative, technology driven and customer focused organization, is committed to keep pace with the revolutions in the telecom and security industries. With more than 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like IP-PBX, Universal Gateways, VoIP Gateways and Terminals, GSM Gateways, Access Control, Time-Attendance and Video Surveillance solutions. These solutions are feature-rich, reliable and conform to the international standards. Having global footprints in Asia, Europe, North America, South America, and Africa through an extensive network of more than 2,500 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many international awards for its innovative products.

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MATRIX COMSEC
Head Office
394-GIDC, Makarpura, Vadodara-390 010,
India.
Ph: (+91) 265-613-7222
E-mail: Inquiry@MatrixComSec.com

Factory
19-GIDC, Waghodia,
Dist. Vadodara-391 760,
India.
Ph: (+91) 265-613-7222

MATRIX COMSEC - North America
2 Wickstead Crt, Brampton,
Ontario, L6R 1N8
+1 408-643-0581 (USA)
+1 437-266-1005 (Canada)