DATASHEET - ETERNITY NX

The Next-Generation Platforms for
Unified Communications

SARVAM UCS is a family of Unified Communication Solutions which runs on next-generation hardware platfrom. ETERNITY NX includes members suitable for SME and ENTERPRISE segments. ETERNITY LENX is the biggest in the family and is targeted at Large Enterprises. ETERNITY MENX is targeted at Medium Enterprises. ETERNITY GENX is the smallest in the family and is targted at SMEs.

MATRIX
TELECOM SOLUTIONS

SYSTEM RESOURCES	DESCRIPTION	SARVAM UCS SME (ETERNITY GENX)	SARVAM UMG (ETERNITY GENX)	SARVAM UCS ENT (ETERNITY MENX)#	SARVAM UCS ENT (ETERNITY LENX)#
UC (SIP/IP) Users	Registration of Hard SIP/IP Phones, UC Client for Android/iOS and Windows PC using Business Application	999	-	2000	2000
SIP Trunks	SIP Trunks (Clients) for ITSP or Peer-to-Peer	99	120	99	99
VOIP Channels	VOIP Channels for simultaneous calling with transcoding	128	128	256	256
NX DBM VOCODER64	DAUGTHER-BOARD MODULE on CPU for VOCODER (VOIP) Channels	2	2	4	4
NX DBM VMS64	DAUGTHER-BOARD MODULE on CPU for simultaneous Voice Mail sessions	1	-	1	1
Voice Mail Channels (Sessions)	Voice Mail System with Auto-Attendant and with dedicated Mailbox for each type of extension (Analog, Digital, IP)	64	-	64	64
Radio Interface Ports	Interface to HF/VHF/UHF Radio Trasnceiver	16	-	16	16
E&M Ports	E&M Network	32	-	32	32

NX DBM VOCODER AND NX DBM VMS - SYSTEM RESOURCES					
SYSTEM RESOURCES	DESCRIPTION	SARVAM UCS SME (ETERNITY GENX)	SARVAM UMG (ETERNITY GENX)	SARVAM UCS ENT (ETERNITY MENX)#	SARVAM UCS ENT (ETERNITY LENX)#
Max. Concurrent calls from IP User to other IP User	IP-IP Audio Calls without Transcoding	500	-	500	500
Max. Concurrent calls from IP User to other IP User	IP-IP Audio Calls with Transcoding	64	-	128**	128**
Max concurrent IP-TDM calls	IP-TDM Audio Calls	128	128	256**	256**
Concurrent Video Calls from IP User to other IP User	VOCODER Channel will not be Occupied (Does not Support Transcoded Video Calls)	55	-	55**	55**
Concurrent Voice Module (Play Voice Messages)	Concurrent calls management with Auto-attendant	9	-	9	9
Features need transcoding channel (NX DBM - VOCODER Channels)	Conference - for each IP call, Conversation Recording/Call Tapping - for each IP Call, Retrieval of Voice Mail - from each IP user, Trunk auto-answer/VMS Auto-attendant – for each incoming call on SIP Trunk, for each IP to non-IP call				

**The values are indicative and may change without prior notice on product release
ETERNITY LENX Launching in February-2017 (without redundancy support). The redundancy support shall be released by April-2017.
ETERNITY MENX Launching in April-2017.
For redundancy, the equivalent software license (apart from primary CPU) is to be procured additionally.

SARVAM UCS - CALL MANAGEMENT FEATURES

- Abbreviated Dialing (Global & Personal)
- Access Codes (Programmable)
- Account Codes (Forced)
- Alarm-Multiple
- Alarms (Time, Daily, Future Date & Time, Remote)
- Alarm-Snooze
- Allowed and Denied Lists
- Alternate Number Dialing
- Anonymous Call Rejection (SIP)
- Auto Call Back (Busy, No Reply)
- Auto configuration for SIP Phones and UC Clients
- Auto Redial
- Auto-Attendant (9 Concurrent Calls)
- Background Music (DKP and SLT)
- Backup SMDR
- Backup-System Configuration
- Backup-System Software
- Barge-in
- BLF
- Boss Ring
- Bulk SMS
- Call Budget on Extensions
- Call Budget on Trunks
- Call Cost Calculation
- Call Duration Control
- Call Follow Me
- Call Forward (Busy, No Reply, Dual Ring and to External Number)
- Call Park (General and Personal Orbit)
- Call Pick Up (Group and Selective)
- Call Progress Tones (Programmable)
- Call Splitting
- Call Taping
- Call Transfer (Screened, On Busy, While Ringing, Trunk to Trunk)
- Calling Line Identification & Presentation (CLIP)
- Calling Line Identity Restriction (CLIR)
- Cancel All Station Features
- Class of Service (COS)
- CLI based Routing
- Closed User Group (With/Without Exchange ID)
- Conference – Multiple Participants
- Conference Dial-in
- Conflict Dialing
- Continued Dialing
- Conversation Recording
- Date and Time Format
- Daylight Saving Time (DST)
- Day-Night Mode
- Department Call
- Digest Authentication (on SIP)
- Direct Dialing-In (DDI on T1/E1/PRI)
- Direct Inward Dialing (DID)
- Direct Inward System Access (DISA)
- Direct Station Selection Console (DSS Console)

- Distinctive Rings
- Do-Not-Disturb (DND)
- Do-Not-Disturb (Remote)
- Dual Ring
- Dynamic DNS (DDNS)
- Dynamic Lock (Manual)
- Email Notification (VMS)
- Email to SMS and vice versa
- Embedded Registrar and Proxy Servers (SIP Server)
- Emergency Calls Detection and Reporting
- Emergency Conference
- Emergency Number Dialing
- ETERNITY-COSEC Integration
- External Call
- External Call Forward (ECF)
- Fax over IP (T.38 Relay and Pass-Through)
- File Transfer Protocol
- Flexible Numbers (Up to 6 Digits)
- Forced Answer
- Help Desk
- Hold
- Hot Desking
- Hot Outward Dialing (With/Without Number, With/Without Delay)
- Hotline (Immediate and With Delay)
- Hunting/User Group
- IM (Chat)
- IM to SMS and Vice Versa
- Installation Wizard
- Internal Call
- Internal Call Restriction
- Interrupt Request
- IPv6 Ready
- Last Caller Recall
- Last Number Redial
- Least Cost Routing (Number, Time and Service Provider to Service Provider, Carrier Pre-Selection)
- Live Call Screening (VMS)
- Live Call Super Vision
- Logical Partitioning Maturity (Polarity Reversal, Delay, CPD)
- Meet Me Paging
- Menu based Command (DKP)
- Message Wait Indication (LED, Shuttered Dial tone, Voice Message)
- Missed Call Log
- Mobile Port (GSM/3G Port)
- Multi-Stage Dialing
- Music-On-Hold
- Mute
- Name Programming (Station, Trunk)
- NAT and STUN (VoIP)
- Network Selection (GSM)
- Off-Hook Alert (DKP)
- Online SMDR
- Operator (Single, Multiple)

- Override
- Paging (Internal)
- Peer-to-Peer Calling
- Presence Sharing
- Priority (Intercom and Trunk)
- Privacy
- Programming the System (Using SLT, DKP, Ethernet Port)
- Property Management System (PMS) Interface
- Quick Dial
- Raid
- Real Time Clock Region Selection
- Remote Alarm
- Remote Call Forward
- Remote Programming
- Return Call to Original Caller (RCOC)
- Room Monitor
- Routing Group
- Secure RTP
- Selective Trunk Access
- Self Ring Test
- Shared Call Apearance
- SIP and RTP QoS (VoIP)
- SIP over TCP and TLSS
- SMDR Posting (Call Accounting System Interface)
- SMS on no reply
- Software Upgrade
- Station Groups
- Station Message Detail Record (Incoming, Outgoing and Internal - 12000 Records)
- Station Name
- System Activity Log and Display
- System Administrator (SA) Mode
- System Engineer (SE) Mode
- System Fault Log
- System Security (Password/Auto blacklist/White list/Trusted IP addresses/ Interface access restrictions)
- Time Tables
- Time Zone Display
- Toll Control
- Trunk Access Group
- Trunk Auto Answer
- Trunk Connectivity (BRI)
- Trunk Connectivity (GSM/3G)
- Trunk Connectivity (T1/E1/PRI)
- Trunk Connectivity (TWT or CO)
- Trunk Connectivity (VOIP - SIP based)
- Trunk Reservation
- User Absent/Present
- Video Calling
- Virtual Stations
- Voice Mail
- Voice Prompts for Tones
- Walk-in Class of Service (Single/Multiple calls)
- Web-based Programming

Note: For UMG feature list, refer SARVAM UMG brochure.

LICENSED FEATURES

APPLICATIONS	ETERNITY GENX	ETERNITY MENX#	ETERNITY LENX#
	SARVAM UCS SME	SARVAM UCS ENT	
HOSPITALITY	SARVAM HOSPITALITY SME	SARVAM HOSPITALITY ENT	
PMS	SARVAM PMS SME	SARVAM PMS ENT	
SMS GATEWAY	SARVAM SMS GATEWAY SME	SARVAM SMS GATEWAY ENT	
SMS SERVER	SARVAM SMS SERVER SME	SARVAM SMS SERVER ENT	
GATEWAY	SARVAM GATEWAY SME	SARVAM GATEWAY ENT	
QSIG	SARVAM QSIG SME	SARVAM QSIG ENT	
CTI	SARVAM CTI SME	SARVAM CTI ENT	
IP SUBSCRIBER	SARVAM IPSUB5		
	SARVAM IPSUB10		
	SARVAM IPSUB50		
	SARVAM IPSUB100		
	SARVAM IPSUB500		
UC CLIENT	SARVAM VARTA USER5E		
	SARVAM VARTA USER10E		
	SARVAM VARTA USER50E		
	SARVAM VARTA USER100E		
	SARVAM VARTA USER500E		
	SARVAM VARTA USER5P		
	SARVAM VARTA USER10P		
	SARVAM VARTA USER50P		
	SARVAM VARTA USER100P		
	SARVAM VARTA USER500P		

 # Launching ETERNITY LENX in February-2017 (without redundancy support) and ETERNITY MENX in April-2017

TECHNICAL SPECIFICATIONS

TECHNOLOGY

Type of Switching	IP at Core
Processor Speed	900 MHz Dual Core
Slots Type	Universal

VOIP

Type	DAUGTHER-BOARD MODULE on CPU
VOCODER Channels per DBM (DAUGHTER-BOARD MODULE)	64
VOIP Protocols	SIP v2, SIP over TCP, Symmetric RTP, RTCP, 100rel/PRACK
Network Protocol	IPv6, IPv4, TCP, UDP, SNTP, STUN, ARP, ICMP, PPP, DNS, SMTP
SIP	Maximum 99 SIP Accounts per System, Out Bound Proxy Support, Display Name, User Name, Password, URL, Proxy URL, Register Interval
VOIP Channels	128 VOIP Chennals with 2 VOIP Daughter-Board module
Line Echo Cancellation	G.168 with 64/128ms Tail Length
Voice	Dynamic Jitter Buffer (Adaptive),Comfort Noise Generation and Voice Activity Detection
NAT	STUN and NAT Keep Alive
Voice CODECs	G.711 (A-law, μ-Law), G.723, G.729AB, GSM-FR, GSM-EFR and iLBC
Call Progress Tones	Dial tone, Ring Back Tone, Busy Tone, Error Tone
Fax	T.38 Relay and Pass Through
Quality of Service	SIP QoS and RTP QoS
Security	SRTP/TLS over SIP, MD5 Authentication for SIP, Password Protected Configuration by Admin and User
Physical Connector	Ethernet (RJ45) Gigabit Port, Auto MDIX (10/100/1000 base-T)

VOICE MAIL

Type	DAUGTHER-BOARD MODULE on CPU
VMS Channels per DBM (DAUGHTER-BOARD MODULE)	64
Voice Mail Box	Dedicated Mail Box for each type of extension (Analog, Digital, IP)
Voice Messages	15 Voice Messages of 16 second each
Voice Recording	Recording up to 2170 hours with 64 GB USB Pen Drive

GSM

Type	Expansion Card for GSM Interface
GSM Band (MHZ)	Quad-Band: GSM850,EGSM900, DCS1800, PCS1900
Compliant	ETSI GSM Phase 2/2+
SIM Card	One SIM per GSM Port
SIM Interface	1.8V, 3V
Transmission Power	Class 4 (2W) at GSM850 MHz and EGSM900 MHz Band
	Class 1 (1W) at DCS1800 MHZ and PCS1900 MHZ Band
RF Sensitivity	Better than -102dBm
Protocol	AT Command Interface
External Antenna	One Antenna per 4 GSM Ports, 1.8/3.0*dBi, 50Ω SMA (Male) Connector, Omni Directional with Cable of 3 Meters Length

* Depends on GSM Frequency Band

3G

Type	Expansion Card for GSM 3G Interface
GSM Band (MHZ)	Quad-Band: GSM850, EGSM900, DCS1800, PCS1900 Penta-Band: GSM: 850/900/1800/1900 and UMTS: 800/850/900/1900/2100
Compliant	ETSI GSM Phase 2/2+
SIM Card	One SIM per GSM Port
SIM Interface	1.8V, 3V
Transmission Power	Output Power
RF Sensitivity	< -106dBm at GSM850, EGSM900, DCS1800, PCS1900 < -108dBm at WCDMA2100, WCDMA1900 < -106dBm at WCDMA850
Protocol	AT Command Interface
External Antenna	One Antenna per 4 3G GSM Ports, 1.8/3.0*dBi, 50Ω SMA (Male) Connector, Omni Directional with Cable of 3 Meters Length

* Depends on GSM/3G Frequency Band

ISDN BRI

Type	Expansion Card for ISDN BRI Interface
Channels	2B+D
Personality	Network (NT) and Terminal (TE)
Switch Variant	AT&T 4ESS, DMS-100, ETSI NET3, ITU-T Q.921,ITU-T Q.931, NTT INS64, US NI1 (National ISDN 1) France VNx
Protection	Solid State (Over Voltage and Over Current) Built-In Secondary Protection
Physical Connector	RJ45 (120Ω)

ISDN PRI

Type	Expansion Card for ISDN PRI Interface
Channels	23B+D and 30B+D
Personality	Network (NT) and Terminal (TE)
Line Coding	AMI/B8ZS for T1 and HDB3 for E1
Framing	ESF for T1 and CEPT1 (with/without CRC) for E1
Switch Variant	AT&T 4ESS, AT&T 5ESS, DMS-100, ETSI NET5,ITU-T Q.921, ITU-T Q.931, NTT INS64, US NI2 (National ISDN 2), QSIG ECMA, France VN
Protection	Solid State (Over Voltage and Over Current) Built-in Secondary Protection
Supplementary Services	QSIG ECMA
Physical Connector	RJ45 (Impedance Selectable)/Mono-mode Fiber Optic*

Option available with ETERNITY E1FO PRI SINGLE

E1 CAS

Type	Expansion Card for T1 E1 ISDN PRI
Bit Rate	2048 kbps +/- 50ppm
Line Coding	HDB3
Framing	CEPT1 (with/without CRC) with CAS MF
Line Signaling	ITU-T Q.400 – Q.490
Register Signaling	MFC-R2
Alarms	I.431, G.732, ETSI 300-233
Protection	Solid State (Over Voltage and Over Current) Built-In Secondary Protection
Physical Connector	RJ45 (Impedance Selectable)/Mono-mode Fiber Optic

T1 RBS

Type	Expansion Card for T1 E1 ISDN PRI
Bit Rate	1544 kbps +/- 50ppm
Line Coding	AMI and B8ZS
Framing	D4, ESF
Line Signaling	FXS Loop Start, FXO Loop Start, FXS Ground Start, FXO Ground Start, E&M (Immediate, Wink Start, Wink Start FGD)
Digit Dialing	DTMF
Alarms	ANSI T1.231
Performance	ANSI T1.403, ANSI T1.231, AT&T TR54016
Protection	Solid State (Over Voltage and Over Current) Built-In Secondary Protection
Physical Connector	RJ45 (Impedance Selectable)

CO (TWT - Two Wire Trunk)

Type	Expansion Card for CO/FXO Interface
Signaling	Loop Start
Loop Limit	1200Ω
Off Hook AC Impedance	600/900/Complex
Pulse Dialing	10/20PPS
DTMF Dialing and Reception	ITU-T Q.23 & Q.24
Return Loss	>18dB
Longitudinal Balance	>50dB
Transmission Level Adjust	Tx Gain: -15dB to +10 dB, Rx Gain:-15dB to +10dB
CLI Reception	DTMF, FSK ITU-T V.23 and FSK Bellcore 202
Call Maturity	Delay and Polarity Reversal
Protection	Over Voltage and Over Current Secondary Protection
Physical Connector	RJ45

COMBAT NET RADIO (RADIO INTERFACE CARD)

Type	Expansion Card for Radio Interface
Line Inputs	Balanced, Transformer Isolated 1Vrms, 600 ohm
Line Outputs	Balanced, Transformer Isolated 1Vrms, 600 ohm
PTT Output	Opto-Isolated Normally OPEN, 1A max
Physical Connector	Centronix

E&M

Type	Expansion Card for E&M Interface
E&M Signaling	Type IV (Originated on E-lead or on M-lead) and Type V
Speech Interface	2-Wire or 4-Wire
Trunk Seizure Type	Immediate, Immediate+Wink, Seizure Pulse, Seizure Pulse+Wink, Express, Compander Control Signal (CCS)
Signaling	Pulse Dial - Pulse 10PPS, Pulse 20PPS Tone Dial - DTMF
AC Impedance	600Ω
Return Loss	20 dB
Transhybrid Loss	20 dB against Configurable Balance of 600Ω or AT&T Complex Impedance
Transmit Gain	+/- 1 dB
Receive Gain	+/- 1 dB
Physical Connector	RJ45

DKP (DIGITAL STATION)

Type	Expansion Card for Digital Key Phone Ports
Signaling	Proprietary Digital (2B+D)
Interface	Single pair for Speech, Signaling and Power
Loop Limit	100Ω
Speech Level	Adjustable Tx and Rx Gain for Handset and Hands-Free
Protection	Over Voltage Secondary Protection
Physical Connector	RJ45

SLT (ANALOG STATION)

Type	Expansion Card for Analog Extensions
Signaling	Loop Start
Dialing	DTMF and Pulse (10/20PPS)
Off Hook AC Impedance	600/900/Complex
Off Hook Current	39mA Max
Loop Limit	1800Ω Max (Excluding Telephone)
On-Hook Voltage (Tip/Ring)	-48V Nominal
DTMF Detection	ITU-T Q.24
Return Loss	>18dB
Longitudinal Balance	>50dB
Transmission Level Adjust	Tx Gain: -3dB to +6dB, Rx Gain:-3dB to +6dB
Ringing	Trapezoidal 60VRMS/25Hz and Sinusoidal 52VRMS/25Hz
REN	3
CLI Presentation	DTMF, FSK ITU-T V.23 and FSK Bellcore 202
Protection	Over Voltage Secondary Protection
Physical Connector	RJ45/Centronix*

* For ETERNITY LE CARD SLT48

ENVIRONMENTAL

Operating Temperature	0ºC to +45ºC (32ºF to113ºF)
Operating Humidity	5-95% RH, Non-Condensing
Storage Temperature	-20ºC to +70ºC (-4ºF to +158ºF)
Storage Humidity	0-95% RH, Non-Condensing

POWER SUPPLY

Product	SARVAM UCS SME (ETERNITY GENX)	SARVAM UMG (ETERNITY GENX)	SARVAM UCS ENT (ETERNITY MENX)#	SARVAM UCS ENT (ETERNITY LENX)#
Inputs	Option 1 (Mains): 100-240 VAC, 47-60Hz (250W)		Option 1 (Mains): 100-240 VAC, 47-60Hz (500W)	48VDC +20% to -15% (1400W)
	Option 2 (DC): 48VDC +20% to -15% (250W)		Option 2 (DC): 48VDC +20% to -15% (500W)	
Power Consumption (Typical with 30% (72) SLT Off-hook)	170 Watt		-	-
LED Indications	4 LEDs for Power Supply Health Status		4 LEDs for Power Supply Health Status	

MECHANICAL

Specifications	SARVAM UCS SME / UMG (ETERNITY GENX)	SARVAM UCS ENT (ETERNITY MENX)#	SARVAM UCS ENT (ETERNITY LENX)#
Dimensions (WxHxD)	43.65x22.6x17.35cm 17.18"x8.9"x6.83"	61.2x31.55x40.5cm 24"x12.42"x15.94"	49.6x71.5x48.2cm 19"x28.14"x18.97"
Unit Weight	5kg (11.02lbs)	-	-
Shipping Weight	8kg (17.63lbs)	-	-
Type of Shipping Material	Corrugated Box	Corrugated Box	Corrugated Box
Installation	19" Rack Mount with 4U Enclosure Wall Mount Table Top	Wall Mount Table Top	19" Rack Mount with 16U Enclosure Wall Mount Table Top

 # Launching ETERNITY LENX in February-2017 (without redundancy support) and ETERNITY MENX in April-2017

COMPLIANCES		
EMI/EMC	Conducted Emission	CISPR 22
	Radiated Emission	CISPR 22
	Harmonic Current Emission	IEC 61000-3-2
	Voltage Flicker	IEC 61000-3-3
	Electro-static Discharge	IEC 61000-4-2
	Radiated Susceptibility	IEC 61000-4-3
	Electrical Fast Transient	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted Immunity	IEC 61000-4-6
	Power Frequency Magnetic Field	IEC 61000-4-8
	Voltage Interruption and Dips	IEC 61000-4-11
FCC	Conducted Emission	FCC Part 15 Sub Part B
	Radiated Emission	FCC Part 15 Sub Part B
EC Directives	R&TTE 1999/5/EC	
	LVD 2014/35/EU	
	EMC 2014/30/EU	
Safety	EN 60950-1:2006 + AM1:2010 + AM12:2011 + AM2:2013	
Environment Test	Cold Test	IS:9000 Part 2/Section 4
	Dry Heat Test	IS:9000 Part 3/Section 5
	Damp Test	IS:9000 Part 5/Section 1

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SARVAM FAMILY - ORDERING INFORMATION	
SARVAM UCS SME	Matrix SARVAM Unified Communication Server for SME for ETERNITY GENX (hardware). Preloaded with licenses for 5 IPSUB, 4 VOCODER CHANNELS and 4 VOICE MAIL CHANNELS. For VOCODER and VOICE MAIL, respective daughter-boards are required
SARVAM UMG SME	VOCODER CHANNELS for SARVAM UCS SME (ETERNITY GENX) and SARVAM UCS ENT (ETERNITY MENX/LENX) to support 4/16 simultaneous calls with transcoding
SARVAM VOCODER CHNL4 SARVAM VOCODER CHNL16	VOCODER CHANNELS for SARVAM UCS SME (ETERNITY GENX) and SARVAM UCS ENT (ETERNITY MENX/LENX) to support 4/16 simultaneous calls with transcoding
SARVAM IPSUB5 SARVAM IPSUB10 SARVAM IPSUB50 SARVAM IPSUB100 SARVAM IPSUB500	License for VOICE MAIL CHANNELS for SARVAM UCS SME (ETERNITY GENX) and SARVAM UCS ENT (ETERNITY MENX/LENX) to support 4/16 simultaneous voice mail sessions
SARVAM VARTA USER5E SARVAM VARTA USER10E SARVAM VARTA USER50E SARVAM VARTA USER100E SARVAM VARTA USER500E	License for 5/10/50/100/500 VARTA UC SOFT CLIENTS with ESSENTIAL features. SARVAM UCS SME (ETERNITY GENX) and SARVAM UCS ENT (ETERNITY MENX/LENX) needs this license to register ANDROID/IOS/WINDOWS DESKTOP UC CLIENTS. This licensee is not required for HARDWARE IP-PHONES
SARVAM VARTA USER5P SARVAM VARTA USER10P SARVAM VARTA USER50P SARVAM VARTA USER100P SARVAM VARTA USER500P	License for 5/10/50/100/500 VARTA UC SOFT CLIENTS with PROFESSIONAL features. SARVAM UCS SME (ETERNITY GENX) and SARVAM UCS ENT (ETERNITY MENX/LENX) needs this license to register ANDROID/IOS/WINDOWS DESKTOP UC CLIENTS. This licensee is not required for HARDWARE IP-PHONES
SARVAM SMS GATEWAY SME	License to enable SMS GATEWAY functionality for SARVAM UCS SME to connect to third-party SMS GATEWAY CLIENT (SMPP V3.4) to send/receive SMS over GSM SIM installed on GSM Interface card
SARVAM SMS SERVER SME	License to enable SMS SERVER functionality for SARVAM UCS SME to connect to any EMAIL client (i.e. Outlook, Gmail, Yahoo etc.) that can be used to send/receive EMAIL to SMS and vice-versa over GSM SIM installed on GSM Interface card
SARVAM HOSPITALITY SME	License to enable HOSPITALITY functions suite for SARVAM UCS SME to support HOSPITALITY functions and features used in HOTEL-MOTEL
SARVAM PMS SME	License to enable PROPERTY MANAGEMENT SYSTEM interface for SARVAM UCS SME to integrate with third-party PROPERTY MANAGEMENT SYSTEM (PMS) used in a HOTEL-MOTEL
SARVAM GATEWAY SME	License for SARVAM UCS SME to support GATEWAY functions in addition to UCS functions. This license allows using SARVAM as UCS and GATEWAY simultaneously. This is different from dedicated UMG GATEWAY APPLICATION
SARVAM QSIG SME	License for QSIG interface for SARVAM UCS SME to connect with other Matrix or Third Party PBX using ISDN PRI for seamless calling and interworking of certain PBX features
SARVAM CTI SME	License to enable TAPI 2.2 for SARVAM UCS SME to connect to Third Party CTI Application
NX DBM VOCODER64	VOCODER DAUGHTER-BOARD MODULE (hardware) for ETERNITY GENX/MENX/LENX CPU CARDS capable to support maximum 64 simultaneous VOCODING CHANNELS. UCS AND UMG SERVER licenses are supplied with 4 built-in VOCODER CHANNELS. Additional VOCODER CHNL license is required to activate desired number of channels
NX DBM VMS64	VOICE MAIL DAUGHTER-BOARD MODULE (hardware) having capability to support maximum 64 simultaneous VOICE MAIL SESSIONS for ETERNITY GENX/MENX/LENX CPU CARD. Separate VMS CHANNEL license is required to activate desired number of channels

ETERNITY GENX12SAC	ETERNITY GE NEXT-GENERATION PLATFORM with CPU CARD, 12 UNIVERSAL SLOTS and AC power supply in 19INCH 4U ENCLOSURE. VOCODER and VOICE MAIL HARDWARE DAUGHTER-BOARD MODULES are NOT INCLUDED
ETERNITY GENX12SDC	ETERNITY GE NEXT-GENERATION PLATFORM with CPU CARD, 12 UNIVERSAL SLOTS and DC power supply in 19INCH 4U ENCLOSURE. VOCODER and VOICE MAIL HARDWARE DAUGHTER-BOARD MODULES are NOT INCLUDED
ETERNITY GE CARD SLT20 ETERNITY GE CARD SLT16 ETERNITY GE CARD SLT8	20/16/8 Single Line Telephones
ETERNITY GE CARD DKP16 ETERNITY GE CARD DKP8	16/8 Digital Key Phones
ETERNITY GE CARD DKP4+SLT16	4 Digital Key Phones and 16 Single Line Telephones
ETERNITY GE CARD CO4+ DKP2+SLT12	4 Two Wire Trunk (CO) Lines, 2 Digital Key Phones and 12 Single Line Telephones with built-in 2-port PFT
ETERNITY GE CARD CO4+ DKP2+SLT8	4 Two Wire Trunk (CO) Lines, 2 Digital Key Phones and 8 Single Line Telephones with built-in 2-port PFT
ETERNITY GE CARD CO2+ DKP2+SLT16	2 Two Wire Trunk (CO) Lines, 2 Digital Key Phones and 16 Single Line Telephones
ETERNITY GE CARD CO4+ SLT16	4 Two Wire Trunk (CO) Lines and 16 Single Line Telephones
ETERNITY GE CARD CO16 ETERNITY GE CARD CO8	16/8 Two Wire Trunk Lines (CO)
ETERNITY GE CARD BRI4	4 ISDN BRI Lines or ISDN Compatible Devices
ETERNITY GE CARD T1E1PRI SINGLE	T1/E1 PRI Line or Compatible Device with QSIG Support
ETERNITY GE CARD E1FO PRI SINGLE	E1 PRI Line or Compatible Device with QSIG Support over Fiber Optic
ETERNITY GE CARD GSM4	4 GSM SIMs for GSM Network Connectivity
ETERNITY GE CARD RIC4	To Connect to Radio Network (To have an Interface with HF/VHF/UHF Radio Trasnceiver)
ETERNITY GE CARD E&M4	To Connect to E&M Network

Note: ETERNITY GE Interface cards (except VOIP and VMS) are compatible with SARVAM UCS SME.
ETERNITY GE SLT, CO, CO+SLT, GSM, T1E1PRI and BRI are compatible with SARVAM UMG.