# 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

## BUILT-IN RESOURCES

| SYSTEM RESOURCES | DESCRIPTION | ETERNITY GENX | ETERNITY GENX | ETERNITY MENX# | ETERNITY LENX# |
|---|---|---|---|---|---|
| Compatible Software Server | Unified Communication Server | SARVAM UCS SME | SARVAM UMG | SARVAM UCS ENT | SARVAM UCS ENT |
| RS232C (COM) Ports | SMDR/PMS/CAS Interfaces | 1 | 1 | - | - |
| USB Ports | Internl USB 2.0<br>External USB 3.0 | 2 | 2 | 2 | 2 |
| USB Storage | Intenal USB - Up to 64GB (8GB - for Software Firmware and 260 Hours of Recording (Factory Fitted), 64GB Pen Drive can be used for 2170 Hours of Recording)<br>External USB - for future use | 8GB | 8GB | 8GB | 8GB |
| Group Conference (3-Party) | Numbers of 3-Party Conferences | 20 | - | 20 | 20 |
| Maximum participants in Single Conference | Maximum Participants in Single Conference | 21 | - | 21 | 21 |
| Voice Messages (16 seconds each) | Auto-Attendant, Voice Help, Voice Tones | 15 | - | 15 | 15 |
| Ethernet Ports (Gigabit) | Web-based Configuration, PMS, SMDR, System Log, VOIP (LAN and WAN) and VMS | 2 | 2 | 2 | 2 |

## SYSTEM SCALABILITY

| SYSTEM RESOURCES | DESCRIPTION | SARVAM UCS SME (ETERNITY GENX) | SARVAM UMG (ETERNITY GENX) | SARVAM UCS ENT (ETERNITY MENX)# | SARVAM UCS ENT (ETERNITY LENX)# |
|---|---|---|---|---|---|
| Universal Slots | For Interface Expansion Cards (except VOIP and VMS) | 12 | 12 | 16 | 27 |
| SLT/FXS Ports | Single Line Analog Telephones | 240 | 120 | 512 | 1296 |
| DKP/DSS Ports | Proprietary Digital Key Phones or DSS Consoles | 96 | - | 128 | 128 |
| CO/FXO (TWT) Ports | Two Wire Trunk (CO) Lines | 64 | 120 | 128 | 128 |
| BRI Ports | ISDN BRI Network or ISDN Compatible Devices | 32 | 48 | 32 | 32 |
| T1/E1/PRI Ports | T1 or E1 or ISDN PRI Network or Compatible Device | 8 | 8 | 8 | 24 |
| GSM/3G Ports | GSM/3G Network | 40 | 48 | 64 | 64 |

| 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, $\mu$-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<br>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<br>< -108dBm at WCDMA2100, WCDMA1900<br>< -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<br>17.18"x8.9"x6.83" | 48.3x31.55x40.5cm<br>19"x12.42"x15.94" | 49.6x71.5x48.2cm<br>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<br>Wall Mount<br>Table Top | 19" Rack Mount with 7U Enclosure<br>Wall Mount<br>Table Top | 19" Rack Mount with 16U Enclosure<br>Wall Mount<br>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 |

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

## 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<br>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<br>SARVAM IPSUB10<br>SARVAM IPSUB50<br>SARVAM IPSUB100<br>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<br>SARVAM VARTA USER10E<br>SARVAM VARTA USER50E<br>SARVAM VARTA USER100E<br>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<br>SARVAM VARTA USER10P<br>SARVAM VARTA USER50P<br>SARVAM VARTA USER100P<br>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 |

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| 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<br>ETERNITY GE CARD SLT16<br>ETERNITY GE CARD SLT8 | 20/16/8 Single Line Telephones |
| ETERNITY GE CARD DKP16<br>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<br>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.

## ABOUT MATRIX

Established in 1991, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. An innovative, technology driven and customer focused organization; Matrix 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 Video Surveillance solutions, Access Control, Time-Attendance, IP-PBX, Universal Gateways, Terminals, Convergence solution, VoIP Gateways and GSM Gateways. 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 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.

*For further information, please contact:*

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*Due to continuous technology upgradations, product specifications are subject to change without notice.*