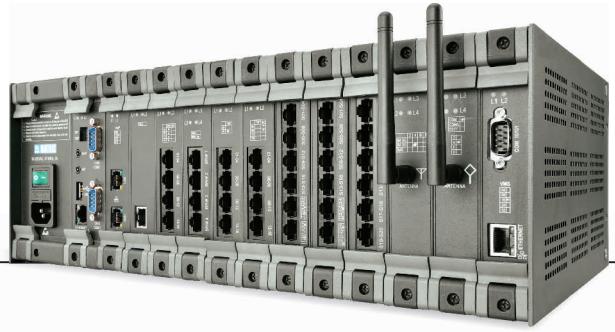


ETERNITY

Technical Specifications



BUILT-IN RESOURCES

| System Resources | Description | ETERNITY PE | | | ETERNITY GE | | ETERNITY ME | |
|----------------------------------|--|----------------|----------------|----------------|-------------|-----|-------------|-----|
| | | 3SS | 3SP | 6SP | 6S | 12S | 10S | 16S |
| DKP Ports | Proprietary Digital Key Phones or DSS Consoles | - | - | - | - | - | 4 | 4 |
| RS232C (COM) Ports | SMDR/PMS/CAS Interfaces | - | 1 | 1 | 2 | 2 | 2 | 2 |
| Parallel Printer Port | Printer with Centronics Interface | - | - | - | - | - | 1 | 1 |
| USB Port | Reserved for Future Applications | - | 1 | 1 | 1 | 1 | 1 | 1 |
| Analog Input Port (AIP) | External Music Source | - | 1 | 1 | 1 | 1 | 1 | 1 |
| Analog Output Port (AOP) | Public Address System | - | 1 | 1 | 1 | 1 | 1 | 1 |
| Digital Input Port (DIP) | Sensor or Panic Switch | 1 [#] | 1 [#] | 1 [#] | 1 | 1 | 1 | 1 |
| Digital Output Port (DOP) | Relay, Contactor, Door Lock | 3 [#] | 3 [#] | 3 [#] | 1 | 1 | 1 | 1 |
| Conference | Number of Conference Participants | 6 | 6 | 15 | 15 | 15 | 21 | 21 |
| Voice Messages (16 Seconds Each) | Auto Attendant, Voice Help, Voice Tones | 6 | 6 | 6 | 16 | 16 | 16 | 16 |
| Ethernet Port | Web based Configuration, PMS, SMDR, System Log | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

[#] Optional Connectivity

SYSTEM CAPACITY

| System Resources | Description | Maximum Ports | | | | | | |
|-------------------------------------|--|---------------|------|------|-------------|-------|-------------|-------------|
| | | ETERNITY PE | | | ETERNITY GE | | ETERNITY ME | |
| | | 3SS | 3SP | 6SP | 6S | 12S | 10S | 16S |
| Universal Slots | For Expansion Cards | 3 | 3 | 6 | 6 | 12 | 10 | 16 |
| SLT Ports | Single Line Analog Telephones | 24 | 24 | 48 | 120 | 240 | 320 | 320 or 512* |
| DKP/DSS Ports | Proprietary Digital Key Phones or DSS Consoles | 24 | 24 | 32 | 48 | 48 | 64 or 128* | 64 or 128* |
| CO (TWT) Ports | Two Wire Trunk (CO) Lines | 8 | 8 | 16 | 96 | 128 | 128 | 128 |
| BRI Ports | ISDN BRI Network or ISDN Compatible Devices | - | 6 | 12 | 24 | 32 | 32 | 32 |
| T1/E1/PRI Ports | T1 or E1 or ISDN PRI Network or Compatible Device | - | 3 | 6 | 6 | 8 | 8 | 8 |
| GSM/3G Ports | GSM/3G Network | 8 | 8 | 8 | 24 | 40 | 24 or 64* | 24 or 64* |
| VoIP Cards | VoIP Phones, Softphones, Mobile SIP Clients | 3 | 3 | 6 | 6 | 12 | 10 | 16 |
| VoIP Users | Registration of VoIP Phones, Softphones and Mobile SIP Clients | 50 | 50 | 50 | 500 | 500 | 999 | 999 |
| VoIP Trunks | SIP Trunks (Clients) for ITSP or Peer-to-Peer | 4 | 4 | 4 | 16 | 16 | 32 | 32 |
| VoIP Channels per Card | Simultaneous VoIP Calls per Card | 8/16 | 8/16 | 8/16 | 16/32 | 16/32 | 16/32 | 16/32 |
| VoIP Calls | Simultaneous VoIP Call Participants | 48 | 48 | 80 | 192 | 384 | 320 | 512 |
| Door Phone Ports | Door Phone Coonectivity (4-Wire) | 3 | 3 | 3 | - | - | - | - |
| E&M Ports | E&M Network | - | - | - | 24 | 48 | 80 | 128 |
| Voice Mail System (Number of Ports) | Voice Mail System with Auto-Attendant and 512 Mail Boxes | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Magneto Phone Ports | To Connect to Magneto Phones | - | - | - | - | - | 80 | 128 |
| Redundancy (Hot Stand-by) | Redundancy for DC Power Supply and Control Cards | - | - | - | - | - | Yes | - |
| Hot-Swap | Insertion and Removal of Cards in Power-On Condition | - | - | - | - | - | Yes | Yes |

* With PS48VDC - 500W

FEATURES LIST

Standard Features (Built-In)

- Abbreviated Dialing (Global & Personal)
- Access Codes (Programmable)
- Access Codes
- Account Codes (Forced)
- Alarm-Multiple
- Alarms
(Time, Daily, Future Date & Time, Remote)
- Alarm-Snooze
- Allowed and Denied Lists
- Alternate Number Dialing
- Analog Input Port (AIP)
- Analog Output Port (AOP)
- Anonymous Call Rejection (SIP)
- Auto Call Back (Busy, No Reply)
- Auto Redial
- Auto-Attendant
- Automated Control Applications
- Background Music (DKP and SLT)
- Backup SMDR
- Backup-System Configuration
- Backup-System Software
- Barge-In
- Boss Ring
- Call Budget on Extensions
- Call Budget on Trunk
- Call Chaining
- 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 Dial-in
- Conference – Multiple Participants
- Conflict Dialing
- Continued Dialing
- Conversation Recording
- Date and Time Format
- Daylight Saving Time (DST)
- Day-Night Mode
- Department Call
- Digest Authentication (on SIP)
- Digital Input Port (DIP)
- Digital Output Port (DOP)
- Direct Dialing-In (DDI on T1/E1/PRI)
- Direct Inward Dialing (DID)
- Direct Inward System Access (DISA)
- Direct Outward System Access (DOSA)
- Direct Station Selection Console (DSS Console)
- Distinctive Rings
- Do-Not-Disturb (DND)
- Do-Not-Disturb (Remote)
- Door Phone Connectivity (ETERNITY PE)
- Dual Ring
- Dynamic DNS (DDNS)
- Dynamic Lock (Manual)

- E-mail Notification (VMS)
- Embedded Registrar and Proxy Servers (SIP Server)
- Emergency Calls Detection and Reporting
- Emergency Conference
- Emergency Number Dialing
- External Call
- External Call Forward (ECF)
- External Music Port (AIP)
- 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
- Incoming Call Management
- Installation Wizard
- Internal Call
- Internal Call Restriction
- Interrupt Request
- 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 Supervision
- Logical Partitioning
- Maturity (Polarity Reversal, Delay, CPD)
- Meet Me Paging
- Menu based Command (DKP)
- Message Wait Indication (LED, Shuttered Dial tone, Voice Message)
- Missed Calls
- Music-On-Hold
- Mobile Port (GSM/3G Port)
- Multi-Stage Dialing
- Mute
- Name Programming (Station, Trunk)
- NAT and STUN (VoIP)
- Network Selection (GSM)
- OFF-Hook Alert (DKP)
- Online SMDR
- Operator (Single, Multiple)
- Override
- Paging (Internal and External)
- Parallel Printer Port (ETERNITY ME)
- Peer-to-Peer Calling
- Priority (Intercom and Trunk)
- Privacy
- Programming the System (Using SLT, DKP, Ethernet Port)
- Public Address System Port
- 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
- RS232C Port
- SMDR Posting (Call Accounting System Interface)
- Security Dialing and Reporting
- Selective Trunk Access
- Self Ring Test

- SIP and RTP QoS (VoIP)
- 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)
- Time Tables
- Time Zone Display
- Toll Control
- Trunk Access Group
- Trunk Auto Answer
- Trunk Connectivity (BRI)
- Trunk Connectivity (GSM/3G)
- Trunk Connectivity (T1/E1/ISDN PRI)
- Trunk Connectivity (TWT or CO)
- Trunk Connectivity (VoIP)
- Trunk Reservation
- Upgrading the Software
- User Absent/Present
- Virtual Stations
- Voice Mail Integration
- Voice Message Applications
- Voice Prompts for Tones
- Walk-In Class of Service (Single/Multiple calls)
- Web based Programming

Licensed Features

Mobility Features License

- Call Back on Trunk
- Manual BTS Selection
- Mobile Extension (CLI based DISA)
- Return Call to Original Caller (RCOC)
- Scheduled Call Forward
- SIM Balance Inquiry
- SIM Recharge

Hospitality Features License

- Check-In
- Check-Out
- Floor Service
- Room Clean Status
- Room Occupancy Status
- Room Shift

PMS License

- For Third-Party PMS Integration (Required Hospitality Features License Pre-Activated)

Gateway Feature License

- Universal Gateway Application (Automatic Call Routing between Networks)

QSIG License

- QSIG on T1/E1/PRI

PLCC Features License

- CCS Signaling
- Express Signaling
- Seizure Signaling
- Release Pulse Signaling

IP Users License

- License to enable IP Users
- IP10: ETERNITY PE, ETERNITY GE and ETERNITY ME
- IP50: ETERNITY GE and ETERNITY ME

TECHNICAL SPECIFICATIONS

TECHNOLOGY

| | |
|-------------------|---|
| Type of Switching | : PCM/TDM Digital Switching (100% Non-Blocking) |
| Processor | : 32-bit RISC |
| Architecture | : Distributed Processing |
| Slots | : Universal |

SLT (ANALOG STATION)

| | |
|----------------------------|-----------------------------------|
| 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 |
| Ringling | : Trapezoidal 60VRMS/25Hz and Sinosoidal 52VRMS/25Hz |
| REN | : 3 |
| CLI Presentation | : DTMF, FSK ITU-T V.23 and FSK Bellcore 202 |
| Protection | : Over Voltage Secondary Protection |
| Physical Connector | : RJ45 |

DKP (DIGITAL STATION)

| | |
|--------------------|--|
| 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 |

CO (TWT - Two Wire Trunk)

| | |
|----------------------------|---|
| Signaling | : Loop Start |
| Loop Limit | : 1200Ω |
| Off Hook AC Impedance | : 600/900/Complex |
| Pulse Dialing | : 10/20 PPS |
| DTMF Dialing and Reception | : ITU-T Q.23 & Q.24 |
| Return Loss | : >18dB |
| Longitudinal Balance | : >50dB |
| Transmission Level Adjust | : Tx Gain: -15dB to +10dB, 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 |

ISDN BRI

| | |
|--------------------|---|
| 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 | : RJ48 (120Ω) |

ISDN PRI

| | |
|------------------------|---|
| 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) |

E1 CAS

| | |
|--------------------|--|
| Bit Rate | : 2048 kbps +/- 50 ppm |
| 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) |

T1 RBS

| | |
|--------------------|---|
| Bit Rate | : 1544 kbps +/- 50 ppm |
| 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) |

GSM

| | |
|--------------------|--|
| GSM Band (MHz) | : Quad-band: GSM850, EGSM900, DCS1800, PCS1900 |
| Compliant | : ETSI GSM Phase2/2+ |
| 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

| | |
|--------------------|---|
| GSM Band (MHz) | : Quad-Band: GSM850, EGSM900, DCS1800, PCS1900 Tri-Band: WCDMA 850/1900/2100 and WCDMA 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 GSM850/GSM900: Class 4 (2W) DCS1800/PCS1900: Class 1 (1W) UMTS 850/900/1900/2100: Class 3 (0.25W) |
| 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, 500 SMA (Male) Connector, Omni Directional with Cable of 3 Meters Length |

* Depends on GSM / 3G Frequency Band

VoIP

| | |
|---------------------------------|--|
| VoIP Protocols | : SIP v2, SIP over TCP, Symmetric RTP, RTCP, 100rel/PRACK |
| Network Protocol | : IPv4, TCP, UDP, SNTP, STUN, ARP, ICMP, PPP, DNS, SMTP |
| SIP | : Maximum 32 SIP Accounts Per System, Out Bound Proxy Support, Display Name, User Name, password, URL, Proxy URL, Register Interval |
| Line Echo Cancellation Voice | : G.168 With 64/128ms Tail Length 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 Fax | : Dial tone, Ring Back Tone, Busy Tone, Error Tone T.38 Relay and Pass Through |
| Quality of Service Security | : SIP QoS and RTP QoS MD5 Authentication for SIP, Password Protected Configuration by Admin and User |
| Data Network | : Ethernet (RJ45) Port, Auto MDIX (10/100 baseT) |
| LED Indications | : 1-LED for System Status and 1-LED for Registrar Status |

Auxiliary Ports (ETERNITY GE and ETERNITY ME)

| | |
|---------------------|--|
| Analog Input Port | : 0.7 Vrms, Isolated, Push-Type Connector |
| Analog Output Port | : 0.7 Vrms, Isolated, Push-Type Connector |
| Digital Input Port | : Loop Sensing-Open/Close, 5mA, Push-Type Connector |
| Digital Output Port | : VDC Max = 60VDC, IDC Max = 0.15A, Push-Type Connector |

Auxiliary Ports (ETERNITY PE)

| | |
|-------------------------------|---|
| Analog Input Port | : 0.7 Vrms, Isolated, Audio Jack Connector (3.5mm) (Premium Only) |
| Analog Output Port | : 0.7 Vrms, Isolated, Audio Jack Connector (3.5mm) (Premium Only) |
| Digital Input Port (Optional) | : Loop Current 13mA, Max. Cable Length-Up to 1000Ω, RJ45 |
| Digital Output Port | : Power Relay, Resistive Load 1.5A (Optional) 120VAC/150VDC, Operation Time : 8ms (Max.), RJ45 |
| Door Phone Port (Optional) | : Speaker Output 1.41Vrms (Max.), Microphone Input 1.34Vrms (Max.), RJ45 |

POWER SUPPLY

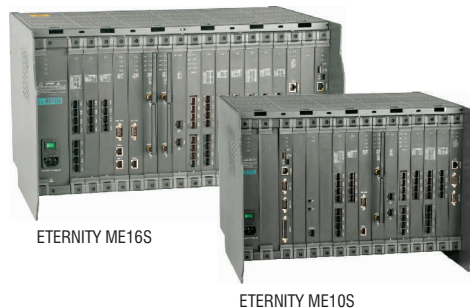
| | ETERNITY PE | ETERNITY GE | ETERNITY ME |
|-----------------------------|---|------------------------------|--------------------------|
| Input | Option 1 (Mains): 100-240 VAC, 47-63 Hz | | |
| | – | Option 2 (DC): 48VDC +/- 20% | |
| Power Consumption (Typical) | 3SS - 25W | 6S - 30W | 10S - 70W |
| | 3SP - 25W | 12S - 50W | 16S - 100W |
| | 6SP - 40W | – | – |
| LED Indications | 2 LEDs for System Status | 2 LEDs for System Status | 3 LEDs for System Status |

ENVIRONMENTAL

| | |
|-----------------------|----------------------------------|
| Operating Temperature | -10°C to +50°C (14°F to 122°F) |
| Operating Humidity | 5-95% RH, Non-Condensing |
| Storage Temperature | -40°C to +85°C (-40°F to +185°F) |
| Storage Humidity | 0-95% RH, Non-Condensing |

MECHANICAL

| Specifications | | Dimension (WxHxD) | Unit Weight | Shipping Weight | Installation |
|----------------|-----|--|------------------|------------------|---|
| Variants | | | | | |
| ETERNITY PE | 3SS | 29.8x5.2x30.0cm 11.73"x2.04"x11.8" | 1.55kg (3.41lbs) | 4.0kg (8.8lbs) | Wall Mount Table Top |
| | 3SP | 29.8x5.2x30.0cm 11.73"x2.04"x11.8" | 1.57kg (3.45lbs) | 4.2kg (9.2lbs) | Wall Mount Table Top |
| | 6SP | 43.9x5.2x30.0cm 17.28"x2.04"x11.8" | 2.51kg (5.52lbs) | 4.9kg (10.8lbs) | Wall Mount, Table Top 19" Rack Mount |
| ETERNITY GE | 6S | 26.0x16.0x25.4cm 10.24"x6.29"x10.0" | 3.5kg (7.7lbs) | 6.5kg (14.3lbs) | Wall Mount Table Top |
| | 12S | 41.2x16.0x25.4cm 16.22"x6.29"x10.0" | 6.5kg (14.3lbs) | 9.5kg (20.9lbs) | Wall Mount, Table Top 19" Rack Mount |
| ETERNITY ME | 10S | 48.2x33.0x39.9cm 19.0"x12.9"x15.55" | 8.3kg (18.3lbs) | 12.3kg (27.1lbs) | Wall Mount, Table Top 19" Rack Mount |
| | 16S | 52.3x33.0x39.9cm 20.5"x12.9"x15.55" | 10.5kg (23.1lbs) | 15.0kg (33.0lbs) | Wall Mount Table Top |



COMPLIANCES

| | | | | | |
|--|---|--------------------------------------|----------------------|--|------------------------------|
| EMI/EMC | Conducted Emission : CISPR 22 | TEC | IR/IPX-01/03 APR2005 | | |
| | Radiated Emission : CISPR 22 | | EC Directives | R&TTE 1999/5/EC LVD 73/23/EEC EMC 89/336/EEC | |
| | Harmonic Current Emission : IEC 61000-3-2 | | | Safety | IEC 60950:2001 First Edition |
| | Voltage Flicker : IEC 61000-3-3 | | | | Environment Test |
| Electro-static Discharge : IEC 61000-4-2 | Dry Heat Test : IS:9000 Part 3/Section 5 | | | | |
| Radiated Susceptibility : IEC 61000-4-3 | Damp Test : IS:9000 Part 5/Section 1 | | | | |
| Electrical Fast Transient : IEC 61000-4-4 | Mechanical | Vibration Test : IEC 600068-2-6:2007 | | | |
| Surge : IEC 61000-4-5 | | Shock Test : IEC 68-2-27 | | | |
| 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 | | | | |
| FCC68 | US:MTXMF01BETERNITY | | | | |

EXPANSION CARDS

| ETERNITY PE | |
|-----------------|--|
| Expansion Cards | Description |
| ETERNITY PE3SS | IP-PBX with 3 Universal Slots |
| ETERNITY PE3SP | IP-PBX with 3 Universal Slots |
| ETERNITY PE6SP | IP-PBX with 6 Universal Slots |
| SLT8 | 8 Single Line Telephones |
| SLT4 | 4 Single Line Telephones |
| DKP8 | 8 Digital Key Phones |
| DKP2+SLT6 | 2 Digital Key Phones and 6 Single Line Telephones |
| DKP4+SLT4 | 4 Digital Key Phones and 4 Single Line Telephones |
| CO2+DKP2+SLT4 | 2 Two Wire Trunk (CO) Lines, 2 Digital Key Phones and 4 Single Line Telephones |
| CO2+SLT6 | 2 Two Wire Trunk (CO) Lines and 6 Single Line Telephones |
| CO4+SLT4 | 4 Two Wire Trunk (CO) Lines and 4 Single Line Telephones |
| CO4+DKP4 | 4 Two Wire Trunk (CO)Lines and 4 Digital Key Phones |
| CO8 | 8 Two Wire Trunk (CO) Lines |
| BRI2 | 2 ISDN BRI Lines or ISDN Compatible Devices |
| T1/E1/PRI | T1/E1/PRI Line or Compatible Device with QSIG Support |
| GSM4 | 4 GSM SIMs for GSM Network Connectivity |
| GSM2 | 2 GSM SIMs for GSM Network Connectivity |
| VoIP16 | IP-PBX Card having Server and Trunks Personalities for 16 Concurrent Calls |
| VoIP8 | IP-PBX Card having Server and Trunks Personalities for 8 Concurrent Calls |
| Door Phone Card | 1 Digital Input Port, 3 Digital Output Ports and 3 Door Phones (4-Wire) |
| VMS16 | 16 Port Voice Mail System with 512 Mail Boxes to give Voice Mail Box Facility to PBX users |

| ETERNITY GE | |
|-----------------|--|
| Expansion Cards | Description |
| ETERNITY GE6S | IP-PBX with 6 Universal Slots |
| ETERNITY GE12S | IP-PBX with 12 Universal Slots |
| SLT20 | 20 Single Line Telephones |
| SLT16 | 16 Single Line Telephones |
| SLT8 | 8 Single Line Telephones |
| ILC20 | 20 Ports Intercom Line Card |
| ILC8 | 8 Ports Intercom Line Card |
| DKP16 | 16 Digital Key Phones |
| DKP8 | 8 Digital Key Phones |
| DKP4+SLT16 | 4 Digital Key Phones and 16 Single Line Telephones |
| CO4+DKP2+SLT12 | 4 Two Wire Trunk (CO) Lines, 2 Digital Key Phones and 12 Single Line Telephones |
| CO2+DKP2+SLT16 | 2 Two Wire Trunk (CO) Lines, 2 Digital Key Phones and 16 Single Line Telephones |
| CO4+SLT16 | 4 Two Wire Trunk (CO) Lines and 16 Single Line Telephones |
| CO16 | 16 Two Wire Trunk Lines (CO) |
| CO8 | 8 Two Wire Trunk Lines (CO) |
| BRI4 | 4 ISDN BRI Lines or ISDN Compatible Devices |
| T1E1PRI SINGLE | T1/E1/PRI Line or Compatible Device with QSIG Support |
| GSM4 | 4 GSM SIMs for GSM Network Connectivity |
| VoIP32 | IP-PBX Card having Server and Trunks Personalities for 32 Concurrent Calls |
| VoIP16 | IP-PBX Card having Server and Trunks Personalities for 16 Concurrent Calls |
| E&M4 | To Connect to 4 E&M Lines |
| VMS16 | 16 Port Voice Mail System with 512 Mail Boxes to give Voice Mail Box facility to PBX users |

ETERNITY ME

| | |
|------------------------|--|
| ETERNITY ME10S | IP-PBX with 10 Universal Slots |
| ETERNITY ME16S | IP-PBX with 16 Universal Slots |
| Expansion Cards | Description |
| SLT32 | 32 Single Line Telephones |
| SLT16 | 16 Single Line Telephones |
| SLT8 | 8 Single Line Telephones |
| ILC32 | 32 Ports Intercom Line Card |
| ILC16 | 16 Ports Intercom Line Card |
| DKP32 | 32 Digital Key Phones |
| DKP16 | 16 Digital Key Phones |
| DKP8 | 8 Digital Key Phones |
| CO8+SLT24 | 8 Two Wire Trunk (CO) Lines and 24 Single Line Telephones |
| CO16 | 16 Two Wire Trunk (CO) Lines |
| CO8 | 8 Two Wire Trunk Lines (CO) |
| BRI4 | 4 ISDN BRI Lines or ISDN Compatible Devices |
| T1E1PRI DUAL | 2(Dual) T1/E1/PRI Lines or Compatible Devices with QSIG Support |
| T1E1PRI SINGLE | T1/E1/PRI Line or Compatible Device with QSIG Support |
| GSM8 | 8 GSM SIMs for GSM Network Connectivity |
| GSM4 | 4 GSM SIMs for GSM Network Connectivity |
| VoIP32 | IP-PBX Card having Server and Trunks Personalities for 32 Concurrent Calls |
| VoIP16 | IP-PBX Card having Server and Trunks Personalities for 16 Concurrent Calls |
| E&M8 | 8 E&M Lines |
| E&M4 | 4 E&M Lines |
| MAGNETO8+SLT8 | 8 Magneto Phones and 8 Single Line Telephones |
| VMS16 | 16 Port Voice Mail System with 512 Mail Boxes to give Voice Mail Box facility to PBX users |

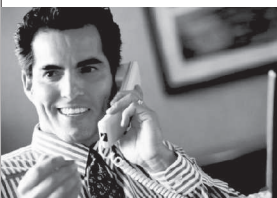
User Terminals (Common to ETERNITY PE, GE and ME)

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|--------------|--|
| EON48S | Digital Key Phone; 2x24 LCD with Swivel, Backlit and Contrast Control, 17 Touch Sense and 16 Programmable Keys |
| EON48P | Executive Digital Key Phone; 6x24 LCD with Swivel, Backlit and Contrast Control, 17 Touch Sense and 16 Programmable Keys |
| DSS16X4 | DSS Console with 64 Direct Station Selection Keys. An Attachment to EON48S and EON48P |
| EONSOFTE | PC based Digital Key Phone with built-in two PC based DSS64 (64 DSS Keys) |
| SETU VP248S | Executive IP-Phone with 2x24 Swivel LCD, 17 Touch Sense Keys |
| SETU VP248P | Executive IP-Phone with 6x24 Swivel LCD, 17 Touch Sense Keys |
| SETU VP248SE | Executive IP-Phone with 2x24 Swivel LCD, 17 Touch Sense Keys and PoE |
| SETU VP248PE | Executive IP-Phone with 6x24 Swivel LCD, 17 Touch Sense Keys and PoE |

■ ABOUT MATRIX



ISO 9001 Company, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. An innovative, technology driven and customer focused organization; the company is committed to keep pace with the revolutions in the telecom and security industries. With around 30% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge telecom products like IP-PBX, Universal Gateways, VoIP Gateways and Terminals, GSM Gateways, Access Control and Time-Attendance Systems and Fire Alarm Systems. 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 more than 150,000 customers representing the entire spectrum of industries. Matrix has won many awards for its innovative products.



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