

Matrix ETERNITY LE and OpenScope 4000

Parameters	Matrix ETERNITY LE	Unify OpenScope 4000
Architecture	<ul style="list-style-type: none"> • Hybrid IP Platform (Converged IP platform with diverse network support-single box solution) • Universal slots based architecture 	<ul style="list-style-type: none"> • Converged IP Platform (stackable architecture) • Slot based architecture
System Components	ETERNITY LE platform with Expansion Cards as per requirement – no any other hardware/equipment	Real Time Communication Server (cPCI) and Access Points
Data support	No Data support justifies company's investment in dedicated data equipment and lower TCO of ETERNITY IP-PBX – wise decision making opportunity	Supports data through built-in data switch, but may not suffice the requirement of full-fledged secured data communication for large enterprises and ultimately company has to invest in dedicated data routing equipment – so data functionality is non-justifiable investment for customer
Network Support and System Capacity	<ul style="list-style-type: none"> • Scalability up to 1344 users (999 IP Users) • Trunks: <ul style="list-style-type: none"> ○ Analog – Max. 128 Ports ○ ISDN BRI – Max. 32 Ports ○ ISDN PRI – Max. 24 Ports ○ GSM/3G – Max. 128 ○ IP – 32 Channels per card, 32 SIP accounts • Subscribers: <ul style="list-style-type: none"> ○ Analog – Max. 1344 ○ Digital – Max. 128 ○ Mobility –GSM/3G Mobile phones, Mobile phones with SIP client, IP-DECT phones ○ IP Users – 999 Users <p>Matrix offers Universal connectivity.</p>	<ul style="list-style-type: none"> • Scalability from 300 up to 100000 users • Up to 12000 digital subscribers per HiPath 4000 • Up to 15 TDM-based Shelves (AP 3300) can be directly connected • Up to 83 IP-based Shelves (AP 3700) can be connected distributed via IP network • Trunks: <ul style="list-style-type: none"> ○ 4000 Analog Trunks ○ Requires HG3500 gateway for IP trunking and networking • Subscribers: <ul style="list-style-type: none"> ○ Analog – Max. 4000 ○ Digital – Max. 4000 (12000 with remote shelves) ○ IP work point clients – Max. 12000 (HG 3500 connect up to 240 SIP subscribers and SIP trunking lines parallel) ○ Mobility – DECT (VoWLAN) – only on-campus mobility only

Features required by Enterprise		
Conference	Multiple Participants conference is possible. Maximum 45 Participants per conference is possible with ETERNITY LE	<ul style="list-style-type: none"> • 8 participants standard multiport conference
SIP Trunking	Benefits of higher quality of service, functions, open standard (SIP) solutions, cost effective calling alternative, caller ID, call charge display	Higher quality of service, comprehensive functions, open standard communication solutions more flexible, caller ID, call administration, call charge display
Voice Mail	<ul style="list-style-type: none"> • In-skin Voice Mail expansion card • 16 Ports, 512 mailboxes, up to 576hrs storage • Voice Mail Notification • Voice Mail to E-mail • Conversation Recording 	<ul style="list-style-type: none"> • Requires licensed application • Voice Mail notification • Voice Mail to E-mail
Fail-over	Automatic fail-over to secondary network and alternate routing (LCR alternate routing)	Routing supported to primary gatekeeper, automatic failover routing to secondary gatekeeper, alternate routing via PSTN with digit translation (LCR alternate routing)
Reliability and Redundancy	<ul style="list-style-type: none"> • Hot Stand-by Redundancy of Power Supply (DC) and critical card (CPU) • Hot Swap architecture enables insertion and removal of cards in Power-on Condition • High voice quality (embedded echo cancellation) • Quality of Service support via IP network by traffic prioritization: IEEE 802.1 p and IETF DiffServ 	<ul style="list-style-type: none"> • Redundancy options via PSTN for High Availability <ul style="list-style-type: none"> ○ Signaling survivability ○ Payload survivability ○ High voice quality (embedded echo cancellation) ○ Management Support (SNMP) ○ Quality of Service support via IP network by traffic prioritization: IEEE 802.1 p and IETF DiffServ
Additional Features	<ul style="list-style-type: none"> ○ Built-in Auto-attendant ○ Call Conference ○ Conference Dial-in ○ Attended or supervised call transfer ○ Unattended or Unsupervised call transfer ○ Call hold and resume ○ Call transfer ○ Call forward ○ Call to voicemail ○ Retrieve voicemail from a remote system (DISA) 	<ul style="list-style-type: none"> ○ Built-in Auto-attendant ○ Call Conference ○ Attended or supervised call transfer ○ Unattended or Unsupervised call transfer ○ Call hold and resume ○ Call transfer ○ Call forward ○ Call to voicemail ○ Retrieve voicemail from a remote system ○ Calling party number display

	<ul style="list-style-type: none"> ○ Calling party number display ○ DID ○ DND – Do Not Disturb ○ DTMF relay ○ Email to SMS/SMS to Email ○ Fax Support ○ Hotline ○ Operator Console/Attendant Console ○ Parallel Ringing ○ SMS Gateway ○ Call Pick-up Groups 	<ul style="list-style-type: none"> ○ DND – Do Not Disturb ○ Hotline ○ DTMF relay ○ Fax Support ○ Operator Console/Attendant Console ○ DID ○ Parallel Ringing ○ Call Pick-up Groups
CTI	Yes	Yes
Management	<ul style="list-style-type: none"> ● Web based management through any computer. No any additional application required to access advance functions ● Web-based GUI includes Configuration management, Backup and restore, system log and SMDR 	<ul style="list-style-type: none"> ● Web based management from HiPath 4000 Assistant (is an integrated processor of HiPath 4000) ● HiPath 4000 Manager –Extend the functions of HiPath 4000 assistant by further applications such as Accounting Management, Fault Management, comprehensive Performance Management, to report faults to SNMP
Call Detail Record	<ul style="list-style-type: none"> ● Call Detail Records – Incoming, Outgoing, Internal, Networked Systems ● Up to 12000 call records 	<ul style="list-style-type: none"> ● Call Detail Records – Incoming, Outgoing, Internal, Networked Systems
Networking	<ul style="list-style-type: none"> ● No Separate Gateway required. Networking possible through VoIP Card or T1/E1/PRI card ● Networking through SIP, QSIG (ISDN) 	<ul style="list-style-type: none"> ● Needs IP Trunking Gateway HG3550 and IP Station Gateway HG3530 ● Networking through CorNet IP, SIP and QSIG (ISDN)
System Upgrade	<ul style="list-style-type: none"> ● System Upgrade is Free through FTP ● Easy upgrade procedure – no hassle of License Management 	<ul style="list-style-type: none"> ● System Upgrade is licensed and chargeable
Power Supply	<ul style="list-style-type: none"> ● Requires single power supply for whole system – Optimized cabling 	<ul style="list-style-type: none"> ● Requires separate power supply for each stack and access points – Increased cabling
System Scalability	<ul style="list-style-type: none"> ● To scale system user has to buy Only Expansion Cards depending upon the spare PBX capacity and certain licenses – cost effective decision 	<ul style="list-style-type: none"> ● To scale system user has to buy new Access Points and Licenses – cost intensive decision

Summary:

- **System Reliability:**
 - Matrix has hot-swappable expansion card modular design ensuring continuous operation and virtually no downtime to users with the option of redundant system.
- **Extended connectivity:**
 - Support for GSM and UMTS (3G)
 - Support for ISDN BRI
 - Support for Magneto Phones
 - Support for Radio Networks
 - Analog Input & Output Ports
 - Standard and widely accepted connector type – ETERNITY is equipped with RJ45 connectors
- **Enhanced Flexibility:**
 - Matrix has Universal platform where user can plug-in any expansion card in any free expansion card slot, no need of external devices to offer mobility and scalability as in case of Unify OpenScape 4000 where access points and MMCS are required to offer scalability – an additional investment for user.
 - Added flexibility through mixed configuration Expansion cards – saves on investment for smaller requirements or changing requirements.
- **Ease of Installation:**
 - No hassle of maintaining various expansion units saving over space in the server room or telecom room and reducing the maintenance inconvenience.
 - Less required external applications and hardware – only single box to manage
 - Reduced cabling and space requirement
 - All the features and extensions are configurable through web-based GUI, no need of extra software. Even the comprehensive Hotel/Motel features are built-in and do not require any external software
- **Cost Effectiveness:**
 - Matrix ETERNITY based solution is a comprehensive single box solution and scalability includes only expansion cards and certain licenses; while in case of OpenScape 4000 scalability includes extra units as access points, licenses and software – a cost intensive affair

Comparisons are based on information available from respective product catalogues and manuals to the best of our knowledge.
For more details, please contact respective manufacturer