Deltapath® Unified Communications Platform with Dolby Voice®

Simplify your communications using one number, one system and one network while enabling omnichannel collaboration.

PRODUCT DATASHEET

FEATURES

Available Modules

» Call Conversation Recording
» Inbound Contact Center
» Outbound Contact Center
» Serviced Office
» Call Billing
» Alarm and Incident Relay
» Push to Talk
» Enterprise Instant Messaging
» Skype for Business Integration
» Microsoft Teams Integration
» Healthcare
» Salesforce Integration
» Intelligent IVR

Dolby Voice

» Studio sound audio quality
» Full room pickup across rooms up to 15 feet (hardware dependent)
» Spatial audio projects each speaker's voice from a distinct location
  • Voices are separated
  • Voices never interlace
» Low bandwidth consumption compared to other industry leading HD codecs
  • Average bandwidth consumption: upload 12.46 kbps / Download 47.71 kbps
  • Peak bandwidth consumption: upload 49.36 kbps / Download 128.03 kbps

Voice and Acoustics

» Adjusts to accommodate voice and acoustic variations -- soft and distant voices

Intelligent Voice Suppression Algorithms are designed for the following types of noises:

» Stationary/constant noise
» Non-stationary noise sources
» Impulsive/time-varying noise sources
» Non-speech noise
» Speech-like noise suppression

Intelligent Voice Suppression is comprised of the following:

» Noise Estimation
  • Estimates the noise in the room in the presence of talkers
» Noise Suppression
  • Calculates suppression gains while minimizing the impact on speech
» Nuisance Rejection
  • Rejects no-speech distracting noises
» Suppression Gain Smoothing
  • Smooths the suppression gains to minimize artefacts
» Voice Activity Detection
  • Acts as a gate to determine whether to transmit the microphone signal

Meet Me Anywhere Conference with Dolby Voice

» Hassle-free audio conference call wherever, whenever
» Invite participants to your conference
» Lock conference to prevent eavesdropping
» Remove / Disconnect participants from the conference
» Mute participants remotely
» Control participation level of each invitee:
  • Assign administrator privileges to a participant
  • Permit participant to listen and talk
  • Permit participant to only listen
  • Permit participant to only talk

Interactive Voice Response System (IVR)

» IVR Prompts Management:
- • Record from phone
- • Record in multiple languages
- • Control what language voice prompts are played in
- • Upload MP3/WAV from web browser
- • Playback prompt from web browser

» Unlimited number of levels in IVR tree

» Error Handling – configurable prompt and action for:
- • Invalid entry
- • No input
- • Multiple invalid entries
- • Retry

» Route to survey system upon call completion

» Customizable LCD Display to show the purpose of call to recipient

» Analytics on IVR usage

» Fax-On-Demand
- • Support TIF & PDF documents
- • Send caller requested fax document to fax number provided
- • Automatic retry

» Route calls to:
- • Contact Center Queue
- • Ring Group
- • Hunt Group
- • Paging Group
- • Conference Bridge
- • Any User
- • Any Number
- • SIP Peer
- • Voicemail box
- • Directory Service

» Add multiple actionable steps in a single IVR Menu

» Automatically execute an action without waiting for caller to select option

» Receive notices identifying errors in IVR setup

» Assign and store information in variables that can be referenced and manipulated by the system

» Define how information is announced to a caller

» Setup time and date announcements

» Supports voice messages in IVR menus

» Supports customized database

» Define conditions that must be satisfied before a routing action is executed

» Execute tailor-made scripts with custom routing

» Lock-down mode for toll-fraud prevention

Virtual Meeting for Video & Voice Conference

» Conference scheduling and invitation tool

» Support for
- • one-to-one conversations
- • Public Conference Rooms
- • Personal private audio conference room
- • Skype for Business Gateway Virtual Meeting Rooms

» Generates a single disposable meeting access code per participant

» ICS calendar invitation by e-mail

» B2B users SIP IP address dial-in

» Federations with trusted end points/external enterprises

Audio Conferencing

» Embedded audioconferencing bridge

» High definition acoustic performance and clarity

» Wideband and narrowband codec mixing

» Maximum Concurrent Participants:
- • Fuji Edition: 32
- • Kilimanjaro Edition: 256
- • Everest Edition: 512

» Audio alert and name announcement when entering and leaving a conference

» Individual volume and mute control for each participant

» Administrative control for the conference host

» Access mode:
- • Dedicated direct dial-in number to private conference room follow by conference password
- • Public conference bridge access number follow by conference room and conference password

» Configurable participant limits for each conference room

» Outbound calling to conference participants and bridge into conference room upon answer

» Conference recording

» Bridge status overview

» Room access by time validity

» Global Conference Bridge
- • Interconnect with all peering Deltapath servers for global conference bridge.
- • Universal access

» Conference host PIN

» Conference user PIN

» Native support with Deltapath Virtual Meeting scheduling tool.

» Conference room usage report

» User Switchboard
- • One click transfer of current call to conference room
- • Invite single or group of participants
- • Mute/Unmute participant
- • Disconnect participant
- • Lock conference
- • Click-to-Join
- • Participant Join Options:
  - › Listen Only
  - › Talk Only
  - › Listen + Talk
  - › Automatically muted when join
  - › Join as Conference Hosts

Call Management

» Per User Call Admission Control

» Configurable outbound caller ID:
- • Dynamically resolve based on user
- • Dynamically resolve based on SIP trunk
- • Hidden
- • Custom
- • Default
- • Relay original on forward

» Multiple extensions sharing one phone

» Multiple phones sharing one extension

» Mobile/land line pairing

» Dial-by-name directory service

DELTAPATH® CO-BRANDED POLY® VVX BUSINESS IP PHONES

VVX150

VVX250

VVX350

VVX450

VVX Phones

» VVX 150
- 2.5" Monochrome display
- 2 Line keys
- 4 Soft keys
- 2x 10/100 Ethernet ports

» VVX 250
- 2.8" Color LCD screen display
- 4 Line keys
- 4 Soft keys
- 2x Gig-E ports

» VVX 350
- 3.5" Color LCD screen display
- 6 Line keys
- 4 Soft keys
- 2x Gig-E ports

» VVX 450
- 4.3" Color LCD screen display
- 12 Line keys
- 4 Soft keys
- 2x Gig-E ports

* Other supported & certified endpoints include Polycom/Poly, Cisco, Dolby, Avaya, Yealink, and other SIP endpoints. For a complete list, access the document titled, Deltapath UC Platform Supported Devices with Firmware.

User Roaming/Hot Desk (hoteling)

» Local and inter-branch roaming
» Simple sign-in and sign-out via IVR
» Automatic billing integration with billing module
» Remote and automatic log out facilities
» Automatic download of phone book and user settings upon sign-in

DISA Remote Dial-in

» Remote access for outbound telephone service from mobile device without Internet access
» Caller ID and Password Authentication
» Automatic permission profiles retrieval upon login

Executive / Assistant Functionality

» Shared Line Appearance
» Shared line hold and pickup from multiple shared devices
» Multiple managers per assistant
» Multiple assistants per manager
» Push-to-talk intercom
» Assistant Barge-In
» Assistant Barge-and-Conference

Mobility

» Mobile applications (for Android and iOS):
- CSmile®
- Deltapath Acute™
- Deltapath inTeam™
- Deltapath Mobile™

» Desktop applications:
- Deltapath Engage

Unified Messaging

» Video and voice mail and greeting
» High definition audio (G722, Siren™ 7 and Siren™ 14) recording in voice messages and greetings
» Voicemail and Videomail to E-mail in (wav/mp3/wmv/mov)
» E-mail server independent
» Support Multiple Email recipient
» Press 0 to operator during greeting playback
» Support for multiple time zones
» Mailbox setup wizard for new users upon first login
» E-mail/voice-mail integration:
- Linked voicemail and e-mail read status
- Linked voicemail and e-mail deletion
» Automatically delete unread or read voicemail of a specific age
» Multiple folders for message organization
» Configurable caller ID and envelope information
» Customizable personal greetings
» Remote voicemail access from PSTN
» Global Voicemail
- Interconnect with all peering Deltapath servers for voicemail services
- Forward a message to another user residing on another Deltapath server
- Universal one number direct voicemail access from any Deltapath server
» Personal DID fax numbers
» Automatically convert incoming faxes to PDF and deliver by e-mail
» Notification of failed fax attempts
» Fax log and reporting
» User Switchboard
- Send fax (PDF, PNG, TIFF)
- Manage multiple voicemail boxes
- Manage voice/video mail greeting
- Read/delete voice/video mail messages

User Switchboard

» User Call Control:
- Answer
- Redirect on ringing
- Hold/Resume
- Consultation Transfer
- Blind Transfer
- Conference
- Transfer to Conference Room
- On demand recording

» Call Management
- Call Forwarding
- Mobile pairing
- Simultaneous ringing
- Personal schedule
- Follow-me

» Unified Messaging
- Send Fax
- Voicemail Management

» Phone Book
- Click-to-dial
- Support for Microsoft Active Directory & LDAP
- Site Phonebook
- Departmental Phonebook
- Personal Phonebook
- Speed dials

H.323 Gatekeeper for Legacy Video Endpoints

» H.323 gatekeeper for backward compatibility with legacy H.323 only video endpoints
- Devices on the internet can dial into your network using H.323

» H.323 business to business calling
» H.239 content sharing
» H.224 for FECC supported

Hunt Group

» Control routing pattern for incoming calls
» Three ring strategies available
- Top down
- Circular
- Broadcast

Multiple Language Support

» Administrative interface
» Deltapath Switchboard
» Deltapath Mobile^{TM}
» IVR prompts
» E-mail Templates
» Language support:
- English
- Cantonese
- Mandarin
- Japanese
- Portuguese

Enterprise Instant Messaging

» 256-bit AES Encryption
» Text, voice, video and photo messaging
» Group messaging
» Emoji support
» Antivirus scanner for file attachments
» Support for single account, multiple devices
» Administration Tools
- Message Logger
- Limit on number of group chat
- Limit on Attachment file size
- Auto file attachment clean up upon expiry
- File extension type filter

» Available on Deltapath Mobile (Android & iOS) & Deltapath Switchboard (Mac, and PC)

PSTN & Third Party PBX Integration

» Built-in SBC for Telco SIP Trunk
» Deployment options:
- Interface with Third party SIP based PBX via SIP Trunk
- Interface with Telco using PRI, BRI, or CO*
- Interface with legacy PBX and Telephone Company*

» Preferred ISDN Port routing by Destination
*Purchase of additional gateways required

Network and Administration

» Browser-based interface for configuration and management with batch import and export tools in Excel format
» Support multiple Direct-Inward-Dial number ranges
» Caller ID Manipulation by SIP Trunks/Peers/PSTN with special customization
» CLI console and SSH access for network assignment and device management
» IPV4
» IPV6 Ready
» DHCP
» Static routes
» Virtual IP (WAN Port Forwarded)
» Default route
» Stackable to form local cluster with IP take-over
» System level management
» User management
» Multi-tenancy administrator management
» QoS priority
» Serial craft RJ-45
» 6 x GB RJ45 LAN Ports

Detailed Call Reports

» Overview and summary reports
» Export reports in different formats (Excel and CSV file)

Directories

» Integration with Microsoft Active Directory or LDAP directory
» Built-in personal, departmental and site directories
» Access directories from mobile devices, desktop, and IP phones

Third-Party Compatibility and Integration

» Microsoft Outlook Click-To-Dial & Highlight-To-Dial
» Real-time search and publish Microsoft Active Directory records to Deltapath® Switchboard and IP phones
» SIP Trunk to Microsoft Lync and Microsoft Skype for Business

Security and Encryption

» SSL certificate management
» HTTPS / HTTP support for management and user interfaces
» Integration for Single Sign-on (SSO)
» Virus and Malware Detection
» 256-bit AES encryption for messaging tool
» SIP over TLS
» Media Encryption via SRTP/AES-128
» Support Polycom secure provisioning
» Polycom Device Provisioning:
  • Deployment Mode
  • Production Mode
  • Secure Provisioning
» Firewall security control and protection
  • DOS attack automatic rate control
  • Malicious packet filtering
  • VOIP session aware firewall
  • Automatic blacklist by source IP
  • Email alert on new blacklist entries
» Debug logging and system audit trail

Enhanced 911 Emergency Application

» Emergency call assistance
» Support for Cyberdata Emergency Phone

Suite of Diagnostic Tools and Realtime Monitoring

» Onboard hardware system monitoring and alert
» Alarm event logging
» Automatic pairing with Deltapath Monitoring & Support Cloud
» ISDN Q.931 signaling messages
» PRI and BRI port status and statistics
» Ethernet port status and statistics
» Ping
» Check DNS
» Trace routing
» Wireshark capture
» IP packet trace
» Global and user specific real-time call activity trace
» Diagnose mail issues in real-time
» Observe mail pending in queue
» Real-time Polycom phone provisioning debug
» SIP trunk availability and latency monitoring alert by email
» Alarm history
» Alarm notification by e-mail
» Multi-Colored LED indicators for critical alarms

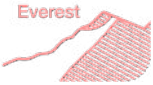| Restful API		

• Audit Trail
• Audio Conference Management
• Alarm and Incident Dispatch System
• Call Billing
• Call Recording
• Contact Center
  ○ Agent
  ○ Supervisor
  ○ Queue
  ○ Agents Dashboard Statistics
  ○ Call Performance Dashboard
• Debug
• Equipment
• Deltapath Switchboard
• H.323 Gatekeeper
• Healthcare System Integration
• Instant Messaging
• IVR Voice Prompts
• LDAP Integration
	• Numbering Plan
	  ○ Context
	  ○ Number Status
	  ○ Permission Group
	  ○ Timeslot
	  ○ Call Filter
	• Phonebook
	  ○ Contact
	  ○ Speed Dial
	  ○ Corporate
	  ○ Telecommuter
	• Push-to-Talk
	  ○ Talk Group
	  ○ Recording Log
	  ○ Group Log
	  ○ Server
	• Reports
	  ○ ACD Analysis
	  ○ CDR MOS and CDR Lists
	  ○ IDD CDR
		• Serviced Office Operator
		  ○ Receptionist Group
		  ○ Customer
		• SIP Trunk
		• Skype for Business
		• System Status
		• Users
		  ○ Call Pickup Group
		  ○ Deltapath Mobility App log
		  ○ Fax Number Mapping
		  ○ Hunt Group
		  ○ Mailbox
		  ○ Ring Group
		  ○ Account Information
		  ○ PIN
		  ○ Password
		  ○ Extra Phone Set
		• Virtual Meeting
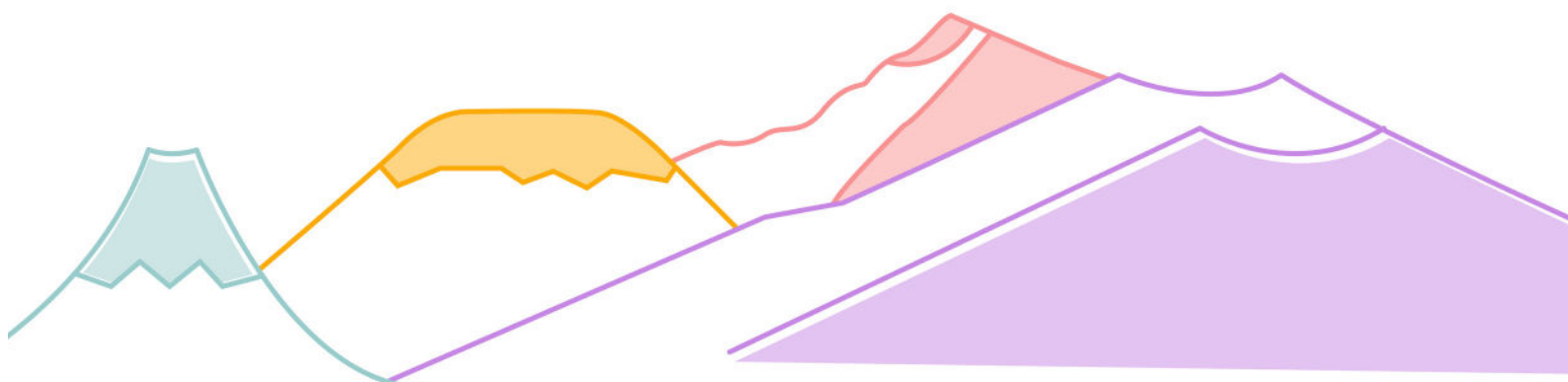
SPECIFICATIONS

Specifications	Deltapath Models			
	Fuji Edition	**Kilimanjaro Edition**	**Everest Edition**	**Mauna Kea Edition**
Physical	• 19' Rack Mountable • 1U High • 443 (W) x 406.8 (D) x 44 (H) mm	• 19' Rack Mountable • 1U High • 443 (W) x 406.8 (D) x 44 (H) mm	• 19' Rack Mountable • 1U High • 443 (W) x 406.8 (D) x 44 (H) mm	• 19' Rack Mountable • 1U High • 434 (W) x 606.5(D) x 42.8 (H) mm
Power Supply	Nonredundant	Redundant 1 + 1 Hot Swappable Power Supply Modules	Redundant 1 + 1 Hot Swappable Power Supply Modules	Redundant 1 + 1 Hot Swappable Power Supply Modules
Power Consumption	AC-Input Rating: 100V-240V Input Current: 2.5A-1.5A Output Power: 150 W (MAX)	AC-Input Rating: 100V-240V Input Current: 5A-2.5A Output Power: 300W (MAX)	AC-Input Rating: 100V-240V Input Current: 5A-2.5A Output Power: 300W (MAX)	AC-Input Rating: 100V-240V Input Current: 7.4A-3.7A Output Power: 550W (MAX)
Data Storage	• Internal Solid State Drive • 1500 Hrs. of voice date • 300 Hrs. of video data	• Customer Accessible Solid State Drive with Raid 1 • 20,000 Hrs. of voice data • 4,000 Hrs. video data	• Customer Accessible Solid State Drive with Raid 1 • 30,000 Hrs. of voice data • 6,000 Hrs. of video data	• 7.2 K RPM NLSAS Hard Drive with RAID 1 • 60,000 Hrs. of voice data • 400 Hrs. of 1080P video data
Cooling System	• 3 Autosensing Fans	• 4 Autosensing Fans	• 4 Autosensing Fans	• 5 Autosensing Fans
Status and Alerts	8 Status LEDs	14 Status LEDs + 1 Audio Alert	14 Status LEDs + 1 Audio Alert	1 Status LED + 1 Audio Alert
Mean time Between Critical Failures	109,500 hrs.	142,900 hrs.	142,900 hrs.	142,900 hrs.
Number of Stations	Up to 200 Devices	Up to 1,500 Devices	Up to 6,000 Devices	Up to 10,000 devices
Number of Mailboxes	256	3000	8000	10,000
Number of Conference Rooms	256	3000	8000	10,000
Number of IVR Menu	256	3000	8000	10,000
Total Number of Concurrent Calls	32	256	512	1000
Busy Hour Call Completion	6000	100,000	200,000	200,000
Ethernet Interface	6 x RJ45 Connectors supporting 10/100/1000 Half/Full Duplex	6 x RJ45 Connectors supporting 10/100/1000 Half/Full Duplex	6 x RJ45 Connectors supporting 10/100/1000 Half/Full Duplex	2 x RJ45 Connectors supporting 10/100/1000 Half/Full Duplex + 2 x RJ45 Connectors supporting 1000/10000 Half/Full Duplex

Unified Communications Switch	
Signaling & Routing Engine and Protocol	• High Performance Multi-Threaded Core Signaling Engine • Multi-task Handling Engine • Session Initiated Protocol (TCP & UDP) (RFC3261 Compliant) • Intelligent Call Routing Engine
Operating Platform	64-bit Embedded Linux platform on flash memory powered by Intel® Processors
Quality of Service	• Type of Service • Class of Service • Differentiated Services Code Point
Availability	99.999%
Disaster Recovery	System backup and recovery
Session Border Controller	Built-in
Clustering	Local Cluster: • Active/Hot Standby (IP takeover; Must be within the same subnet) Geographically Separated Cluster: • Active Active (Able to be two different subnet)
Codecs	Auto Codec Negotiation Supporting • G722 • G711A • G711U • iLBC • H.264 (Video) • DVC-2
RPT	Configurable RTP Paths (Through Server or End to End)
DTMF	Inband and Out of Band (RFC2833)
Fax	T.38 & G.711 Transport with built-in fax receiver
10BASE-T Cable Support	EIA Categories 3, 4, or 5 unshielded twisted-pair (UTP) (2 or 4 pair) up to 328 ft (100m)
100BASE-TX Cable Support	EIA Category 5 UTP (2 pair) up to 328 ft (100m)
Console	RJ45 and Micro USB
Electrical Input Voltage & Frequency	Autosensing 100˜240 VAC 50-60 Hz
Operational Input Current Range	• 7.5A (at 100 VAC nominal) • 3.8A (at 240 VAC nominal)
Storage temperature	-25 °C ~ 70°C
Operating Temperature	0° ~ 40° C
Operating Humidity	20%~90% relative humidity, non-condensing
Non-Operating Shock (with original packing)	350G
Certification and Compliance	• CE • FCC • BSMI • CCC • CB • UL

Gateway (PRI/BRI/FXO/FXS)

Form Factor	19" Rack Mountable 1U High, except MP11X Series
Dimensions	• M800 Series: 320 (W) x 345 (D) x 45 (H) mm • MP11X Series: 220 (W) x 172 (D) x 42 (H) mm
Codecs	Auto Codec Negotiation Supporting • G711A • G711U • G729A
Fax Support	• T.38 compliant (real time fax) • Automatic bypass to PCM
Trunks	• MP Series: Choice of 4, 8 FXO Ports for CO Trunks or 4, 24 FXS Ports for Analogue Devices • M800 B Series: 4 BRI S/T ports • M800 ET Series: Choice of 1 (30 channels) or 2 (60 channels) T1/E1/PRI Spans with 4 FXS Ports for Analogue Devises
PSTN Coding	• E1 A-law • T1 μ-law
Echo Cancellation	Enhanced (Carrier Grade) Echo Cancellation: G.165 and G168-2002, with 32, 64 or 128 msec tailsize
PRI Signaling Protocols (M800 ET Series)	ETSI/Euro ISDN, ANSI NI2 AND OTHER VARIANTS (DMS100, 5ESS), VN3, VN4, VN6
Analogue Signaling (MP Series)	Loop Start, Reverse Battery, Battery Disconnect
Switching	VoIP to circuit, and circuit to circuit (Tandem/TDM) switching
Maximum Call Rate	• MP Series: 1,800 Calls / Hour / Gateway • M800 B Series Series: 7,500 Calls / Hour / Gateway • M800 ET Series: 7,500 Calls / Hour / Gateway
LAN Interface	• MP Series: 10/100 BASE-TX, RJ45 • M800 Series: 10/100/1000 BASE-TX, RJ45
Quality of Service	DiffServ, TOS, 802.1 p/Q VLAN tagging
Models Available	• 37501-M800-V-1ET4S 1 Port E1/T1 with 4 FXS Voice Gateway • 37501-M800-V-2ET4S 2 Port E1/T1 with 4 FXS Voice Gateway • 37501-M800-V-4B-12L-P 4 Port BRI Gateway • 37501-MP114/4O 4 Port FXO Analogue Gateway (Non Rack Mountable) • 37501-MP118/8O 8 Port FXO Analogue Gateway • 37501-MP112/2S 2 Port FXS Analogue Gateway (Non Rack Mountable) • 37501-MP114/4S 4 Port FXS Analogue Gateway (Non Rack Mountable) • 37501-MP124/24S 24 Port FXS Analogue Gateway w/24 Port Patch Panel & RJ21 Cable

About Deltapath

Deltapath liberates organizations from the barriers that prevent effective communication and revolutionizes the way organizations communicate through innovative technologies that meet the needs and the wants of organizations.

We specialize in solutions that unite different communication platforms, audio and video equipment, telephones, desktops, and mobile devices to make communication accessible and intuitive.

It is our belief that every solution should embody simplicity and offer users the right form of communication for the right occasion, right at their fingertips.

Ordering Information

For more information about Deltapath Unified Communications Platform, please contact your nearest Deltapath sales representative.

USA	+ 1 408 707 3299
NZ	+ 64 9 886 9799
HK	+ 852 3678 9999
JP	+ 81 3 3527 7899
TW	+ 886 2 7728 3099
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