Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN

IP Media Server for Processing Voice and Video

Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN (PowerMedia HMP 4.1) is scalable, feature-rich multimedia processing software for building innovative and cost-effective voice and video solutions suitable for enterprise or service provider deployment. PowerMedia HMP 4.1 can enable basic SIP or hybrid connectivity, audio and video play/record, multimedia streaming, transcoding, fax, automated interactive audio and video solutions (IVR and IVVR), and high-end live interactions, such as contact centers and audio and video conferencing or video portals. HMP 4.1 brings decades of experience in media and connectivity applications to a pure software media engine, allowing developers to transition many existing Dialogic hardware-based applications to software-based IP-enabled solutions or create completely new mobile interactivity and other multimedia applications.

PowerMedia HMP 4.1 adds H.264 support, continuous presence video conferencing, HD Voice with both G.722 and AMR Wideband (G.722.2), mobile video (3G-324M), media server virtualization, and dramatically increased scale (5000 SIP connections or 1500 conference parties). PowerMedia HMP 4.1 also contains patent-pending software from Dialogic® Media Labs that enhances video quality through improved bit-rate control. HMP 4.1 runs on general-purpose servers without the need for specialized hardware. Along with virtualization support, this reduces total cost of ownership and provides greater efficiency and deployment flexibility. Adding Dialogic® HMP Interface Boards (DNI Boards) allows PSTN connectivity in a single box solution with gateway functionality. Programming interfaces for HMP 4.1 include Dialogic® R4 and Global Call APIs, MSML, and partner-provided VoiceXML .NET support and graphical tools.

Features	Benefits
Multimedia features such as video streaming and transcoding (H.264, MPEG-4 , and H.263), video resizing, conferencing, and image overlay	Enables multimedia solutions, such as video portals, continuous presence multimedia conferencing, and video-enabled contact centers
Voice features, such as wideband audio coder support (G.722 and G.722.2), play, record, transaction record, DTMF detection, and Call Progress Analysis	Enables advanced voice applications, such as IVR and contact centers with PSTN and IP endpoints that require support for a wide array of coders
IPv6 support for media	Allows efficient deployment in next-generation IP networks with access to large address spaces
3G-324M (with MONA and WNSRP support) for video-enabled mobile applications	Enables mobile video for 3G wireless networks; MONA and WNSRP provide Fast Connect capability.
Applications scale on standard servers based on host processor capacity and application demands,	Allows for high density, cost-effective IP and TDM solutions that typically can support thousands of concurrent sessions
Secure RTP (SRTP) and SIP Transport Layer Security (TLS)	Enables encryption security at the media layer with SRTP and at the signaling layer with TLS
Conferencing and fax (T.38, G.711 passthru, and V.17)	Facilitates development of advanced conferencing and unified messaging with PSTN and IP endpoints

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Applications

Mobile Interactivity

- Personalization
  — Video Ring Tones and CRBT
  — Video, Voice, and Text SMS
  — Video and Voice Chat
  — Video Wallpapers
  — Video and Voice Messaging
  — Video Mail

- Advertising
  — Video and Text Advertising Insertion
  — Text Overlays

- Entertainment
  — Video Portal
  — Gaming
  — Integration of Video and Voice to Social Networking
  — Televoting
  — Mass Calling

- Mobile Commerce
  — Mobile Banking
  — Mobile Payments

- Information
  — Stock Quotes
  — News
  — Video Sharing
  — Video Portal

- Video and Voice Conferencing

- IVVR and IVR

- Video Surveillance

Enterprise

- Contact Center
  — Switching
  — ACD
  — Converged PBX
  — IVR and speech-enabled IVR
  — Conferencing (Voice, Video)

- Unified Communications
  — Messaging (Voice, Video, Fax, Speech)
  — Conferencing (Voice, Video)
  — Presence
  — IP-PBX
  — Multimedia Enablement

- Fax Server
  — Unified Messaging
  — Document Management

- Data Center Infrastructure
  — Transcoding (TDM-IP, IP-IP, Voice, Video)
  — 3G Gateway
  — TDM/IP Gateway

How Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN Works

PowerMedia HMP 4.1 performs media processing tasks on general-purpose servers based on standard server architecture without requiring specialized hardware. HMP 4.1 provides the media services and functionality for building flexible, scalable, and cost-effective converged telephony applications, and next-generation multimedia servers and gateway solutions for 3G wireless, IP, and TDM networks through support for other Dialogic products and technologies, including:

- **DNI Boards** — Allow for PSTN (T1/E1) connectivity in a variety of densities

- **Dialogic® Global Call Software for SS7 Signaling** — Enables TDM or IP SS7 interfaces using Dialogic® DSI SS7 Boards, Dialogic® DSI Signaling Servers, and Dialogic® DSI Protocol Stacks; supports single-server solutions, such as for pre-paid wireless and CRBT

- **Dialogic® Global Call and R4 APIs** — Lets existing solutions written for other Dialogic® products (for example, board products) move easily from TDM to IP and multimedia

- **Media Server Markup Language (MSML) API** — Provides remote access to PowerMedia HMP 4.1 functions through an industry-standard API, enabling a network media server engine for applications such as conferencing

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Multimedia Features

PowerMedia HMP 4.1 supports H.264, MPEG-4, and H.263 video transcoding and video transrating for building applications such as continuous presence video conferencing, video portals, and video streaming servers of different densities. PowerMedia HMP 4.1 also supports 3G-324M and video streaming, video transcoding, and audio transcoding (AMR-NB) capabilities for 3G applications.

In addition, PowerMedia HMP 4.1 supports:

- **Initiation and termination** of a multimedia (audio/video) call, which includes SIP-based call control
- **Synchronization** of voice and video streams for playback on IP video phones, video-enabled soft clients, and connections to 3G network endpoints
- **Enhanced DVR controls** such as pause, resume, and fast forward during the video playback operations

PowerMedia HMP 4.1 can also deliver only the audio portion of a video call to an audio-only endpoint for 3G/2G gateway functionality.

Security Features

PowerMedia HMP 4.1 includes security features using Secure RTP (SRTP) and SIP Transport Layer Security (TLS) to encrypt media and signaling information and keep media transactions secure. Because SRTP provides encryption, message authentication and integrity, and replay protection for RTP data, conversations are secure and cannot be stolen for later playback. TLS prevents the theft of dialing information on outbound calls because it secures SIP signaling information.

Easy Migration to Hybrid TDM-IP and Pure IP Solutions

PowerMedia HMP 4.1 uses the host server's built-in Network Interface Card (NIC) to enable IP connectivity, and supports the IETF RFC 3261 SIP standard for voice and video call session establishment. When combined with DNI Boards for PSTN connectivity, HMP 4.1 provides a cost-effective platform for building TDM solutions, and then later migrating them easily to hybrid platforms, and finally to pure IP deployments. Hybrid platforms can be deployed as IP media gateways, enhanced service platforms, or converged PBX solutions.

The following types of DNI Boards are offered:

- **Single span** — Dialogic® DNI/310TEPHMP and DNI/300TEPHMP Digital Network Interface Board (PCIe and PCI)
- **Dual span** — Dialogic® DNI/610TEPHMP and DNI601TEPHMP Digital Network Interface Board (PCIe and PCI)
- **Quad span** — Dialogic® DNI/1210TEPHMP and DNI1200TEPHMP Digital Network Interface Board (PCIe and PCI)
- **Octal span** — Dialogic® DNI/2410TEPHMP Digital Network Interface Board (PCIe only) and Dialogic® DNI/2410AMCTEHMP Digital Network Interface Board (AMC only)

To help customers accelerate their time-to-market and migrate existing applications to IP easily, PowerMedia HMP 4.1 supports two direct APIs: the Dialogic® R4 API for media processing and the Dialogic® Global Call API for call control. Because these APIs are consistent with the APIs for Dialogic boards with DM3 architecture, they can facilitate quick application development and easy migration from a board-based platform to a platform based on HMP 4.1.

Interoperability

To provide the interoperability needed for high-quality media streaming with a wide variety of industry-standard IP gateways and endpoints, PowerMedia HMP 4.1 supports RTP and RTCP protocols for streaming over IP using G.711 (frame size of 10 ms, 20 ms, or 30 ms), G.726, G.723.1, G.729ab, AMR-NB, and AMR-WB (G.722.2) and G.722.

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To further provide high voice quality by improving Quality of Service (QoS) and reducing latency, PowerMedia HMP 4.1 supports:

- Threshold alarms
- Packet loss reduction/concealment
- RTP and RTCP timeouts
- Type Of Service (TOS) byte setting
- Detection and reporting of timeouts in RTP and RTCP sessions to applications

To enable advanced network QoS monitoring and analysis, PowerMedia HMP 4.1 supports High Resolution RTCP reports for applications that require extended data assessments of VoIP delivery within the network.

Conferencing

The conferencing features in PowerMedia HMP 4.1 facilitate the development of advanced conferencing applications. These features include:

- Coaching
- Active talker notification
- Tone clamping
- Echo cancellation
- HD Voice conferencing (wideband mixing)
- Scalability, which depends on the host processor and the application in use. Current density test results are available on the Dialogic website.

PowerMedia HMP 4.1 also supports MSML, which is a commonly used industry standard for creating enterprise and service provider conferencing and other networked media server applications.

Other Important Features

PowerMedia HMP 4.1 also includes the following important features:

- Support for HD voice via wideband audio coders (G.722 and G.722.2) for messaging and conferencing
- Ability to use Dialogic's IP call control API or to integrate another IP call control protocol stack
- Ability to programmatically control the volume of RTP sessions in order to improve the end-user experience
- Support for a variety of media processing functions, such as:
  — Play with volume control
  — Record with Automatic Gain Control (AGC)
  — Dual-Tone Multi-Frequency (DTMF)
  — User-defined tone detection and generation, including industry-standard RFC 2833 mechanisms
- Support for outbound call progress analysis with positive voice detection and positive answering machine detection algorithms
- Support for Dialogic® Continuous Speech Processing functionality with APIs that are fully compatible with Dialogic® boards, allowing PowerMedia HMP 4.1 to integrate with Automatic Speech Recognition (ASR) and Text-To-Speech (TTS) engines
- Support for fax store and forward for IP (T.38 and G.711 fax passthru) and PSTN (V.17) networks.
- Support for multi-CPU, multi-core configurations, and hyper-threading

Configurations

An IP media server is the endpoint that terminates an IP connection in a network, and it is deployed differently in service provider and enterprise environments. Configurations for IP media servers that can be developed with PowerMedia HMP 4.1 include video transcoding gateway, video transcoding media server, video portal, network announcement, IVR, voice mail, and conferencing server.

The following sections discuss example deployment environments.

Service Provider Configuration

Figure 1 illustrates how an IP media server based on PowerMedia HMP 4.1 can be deployed in a typical service provider environment to deliver messaging, IVR, announcements, voice mail, speech, or conferencing applications. PowerMedia HMP 4.1 also enables video versions of many of these applications.

An IP-PSTN gateway terminates PSTN connections, and a softswitch manages all aspects of call establishment and teardown over IP. Once the call is established, an RTP connection is created between the IP media server and an endpoint. The softswitch tells the media server, IP endpoints, and IP-PSTN gateway when to establish or drop connections.
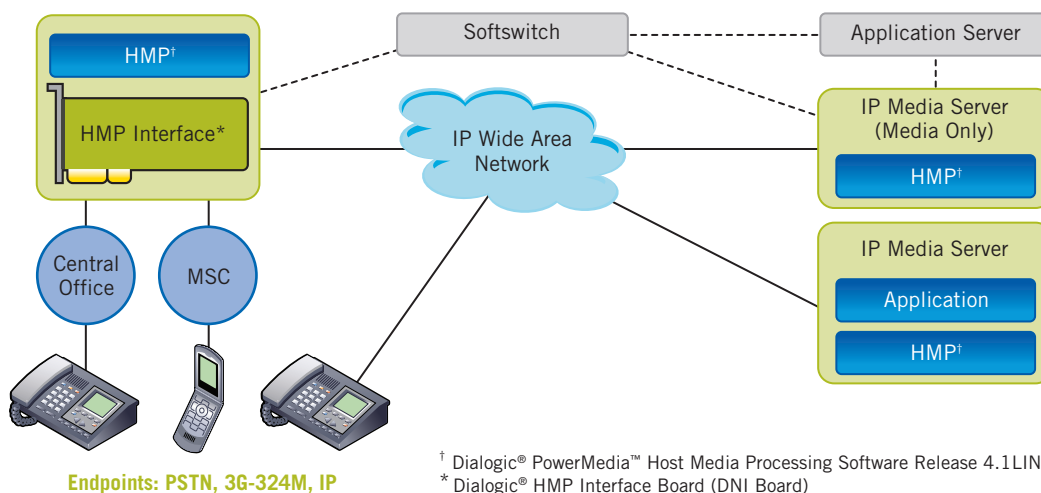

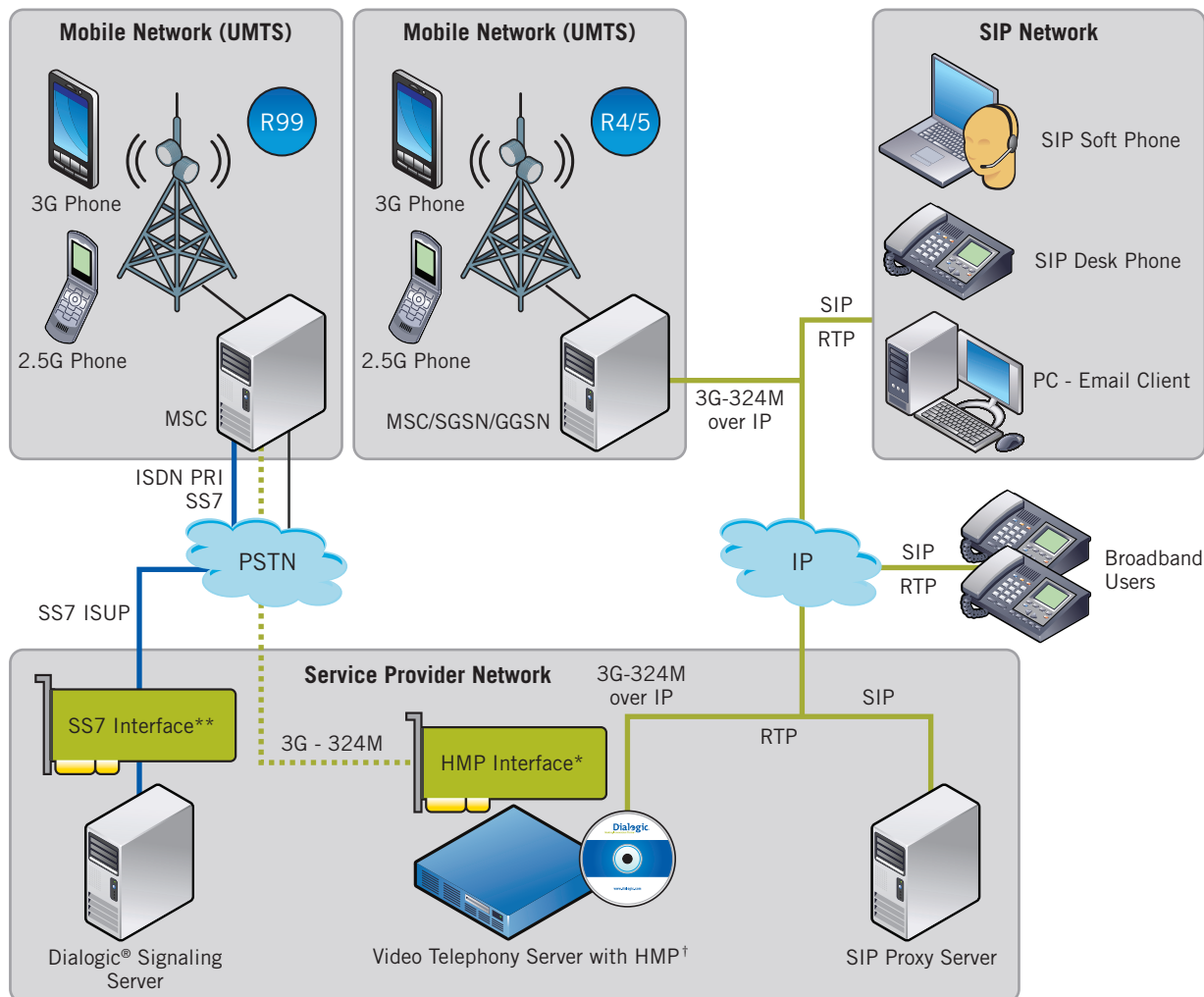**Endpoints: PSTN, 3G-324M, IP**

† Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN
* Dialogic® HMP Interface Board (DNI Board)

Figure 1. Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN in a Service Provider Environment

Figure 2 provides an illustration of a 3G-324M implementation. PowerMedia HMP 4.1 supports media as well as SIP call control and can be implemented with the Dialogic® DSI SS7 Stack and Dialogic® DSI SIGTRAN Stack.

† Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN
* Dialogic® HMP Interface Board (DNI Board)
** Dialogic® DSI SS7HDP Network Interface Board

Figure 2. Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN in a 3G-324M Video Telephony Server

PowerMedia HMP 4.1 runs on a video telephony server, providing the play, record, playback, and synchronization used to display video on 3G wireless, IP soft clients, and IP video phones.

Enterprise Configurations

Figure 3 shows how PowerMedia HMP 4.1 can be deployed in an enterprise environment for IVR, video portal, auto attendant, voice mail, unified messaging, speech, or conferencing services.
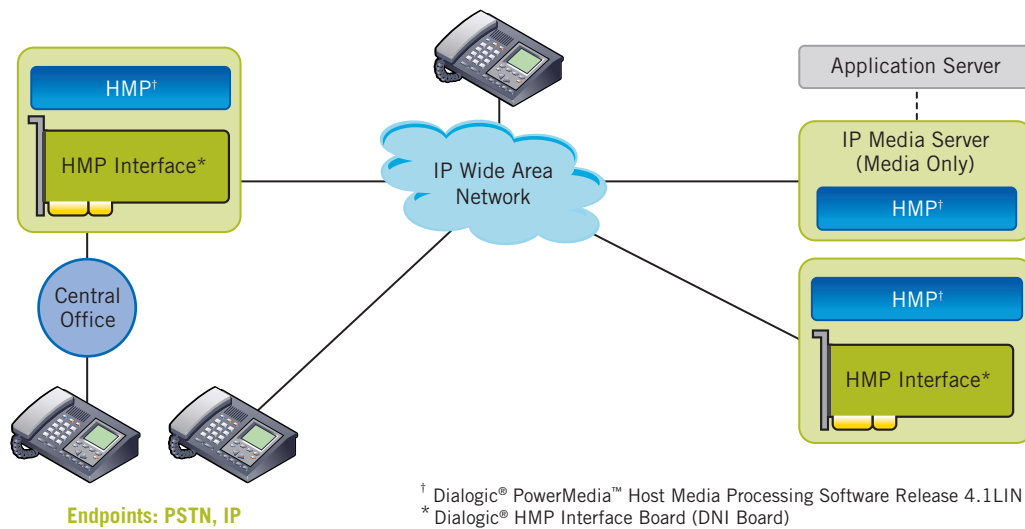

† Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN
* Dialogic® HMP Interface Board (DNI Board)

Figure 3. Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN in an Enterprise Environment

Technical Specifications

Network Interface

	IP over a standard Ethernet connection

Call Control over IP

Protocols	SIP
	Transport Layer Security
	3G-324M for TDM (T1/E1) and for IP (NbUP)
	3G-324M support includes H.324 Annex K (Media Oriented Negotiation Acceleration or MONA) and WNSRP
	SS7
	Integration with third-party call and connection control stacks using the IP media library

Media Streaming over IP

Protocols	IPv4
	IPv6
	RTP
	RTCP
	Secure RTP
	NbUP over IP (H.223/3G-324M, G.711 5ms/20ms, AMR-NB)
Coders	G.711u/a
	G.722
	G.723.1
	G.726
	G.729a
	G.729b
	AMR-NB
	AMR-WB (G.722.2)
QoS	Alarms
	Frames per packet control
	RTP/RTCP timeouts
Tone generation and detection	RFC 2833
Media control over RTP	Programmatic control of inbound RTP stream gain and outbound RTP stream volume

API Support

Media Server Control	MSML
Multimedia	MM (mm_)
3G-324M	3G-324M (m3g_)

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Technical Specifications *(continued)*

API Support *(continued)*

Video Stream Processing Toolkit	Media toolkit (mtk_)
	Overlay builder (ob_)
	Layout builder (lb_)
	Stream manipulation (sm_)
Call control	Dialogic® Global Call API for SIP, Dialogic® Global Call Software for SS7 signaling
	Third-party stack integrated via Dialogic® IP Media Library
Security	Transport Layer Security (TLS) for SIP messages
	Secure RTP
Voice processing	R4 voice (dx_)
Conferencing	R4 conferencing (cnf_)
Fax	R4 fax (fx_)
IP media (QoS, etc.)	R4 IPML (ipm_)
Event reporting, device enumeration, and other related functionality	R4 SRL (sr_)

Channel Density

Number of concurrent user sessions depends on the host processor and the application in use. Dialogic regularly tests the capacities of new processors, and current density test results are available on the Dialogic website. Typically, thousands of concurrent sessions with G.711 are supported.

Video Processing Features

Features supported	Play, Record
	I-frame update (video fast update or VFU)
	Video transcoding
	Video conferencing
	Stream control (pause, resume, fast forward, rewind)
	Image overlay
	Note: Application developers can use the image overlay feature to implement text overlay.
Play	Playback of voice and video, voice only, video only
	Synchronization of voice and video
Record	Stores synchronized voice and video to a file
Video conferencing	Video and audio synchronization
	1, 4, 6, 9 image tiling
	Number of conferees dependent on host processor and the application in use
Video image formats	Common Intermediate Format (CIF) PAL at 352 by 288 pixels,
	Quarter Common Intermediate Format (QCIF) PAL at 176 by 144 pixels,
	Sub-QCIF PAL at 128 by 96 pixels

Technical Specifications *(continued)*

Video Processing Features *(continued)*

Video frame rates	30, 15, 10, or 6 frames per second
Multimedia file formats	Proprietary format
	Audio file (.wav/.pcm): Linear PCM 16b 8K
	Audio file (.wav/.pcm): Linear PCM 16b 16K
	Audio file (.aud): HMP native codec format (all supported codecs)
	Video file (.vid); HMP native codec format (H.263 bit-stream data; H.264 bit stream data; MPEG-4 bit-stream data)
	Multimedia file (.3gp): MPEG-4/AMR-NB
	Image file (.jpeg/.yuv)
Video stream format	H.263, H.263+, H.263++ (Baseline profile up to level 30)
	H.264 (Baseline profile levels 1, 1b, 1.1, 1.2, 1.3)
	MPEG-4 (Simple Profile levels 0, 1, 2, 3)

Voice Processing Features

Features supported	Play, record, and tone generation and detection
Play	Volume control and index play
Record	AGC
Audio file formats for play/record	OKI ADPCM 24 k, 32 k
	G.711 A-law, µ-law 48 k, 64 k
	All of the above in Wave format
	Linear PCM 8b 11 k (Wave format only)
	Linear PCM 8b 8 k
	GSM 13 k
Tone generation and detection	Inband DTMF generation and detection
	User-defined global tone generation and detection (GTG, GTD)
	RFC 2833 tone generation and detection

Conferencing Features

Total parties per server	Number of conferees dependent on host processor and the application in use
Single conference maximum size	Number of conferees dependent on host processor and the application in use
Advanced features	N-way summing
	Coach/pupil mode
	DTMF detection
	DTMF clamping
	Active talker notification

Technical Specifications *(continued)*

Supported Dialogic® HMP Interface Boards (DNI Boards)

Network interface

DNI/310TEPHMP — Single span PCIe with 24 T1 or 30 E1 channels
DNI/610TEPHMP — Dual span PCIe with 48 T1 or 60 E1 channels
DNI/1210TEPHMP — Quad span PCIe with 96 T1 or 120 E1 channels
DNI/2410TEPHMP — Octal span PCIe with 192 T1 or 240 E1 channels
DNI/300TEPHMP— Single span PCI with 24 T1 or 30 E1 channels
DNI/601TEPHMP — Dual span PCI with 48 T1 or 60 E1 channels
DNI/1200TEPHMP — Quad span PCI with 96 T1 or 120 E1 channels
DNI/2410AMCTEHMP — Octal span AMC with 192 T1 or 240 E1 channels
For details, see the datasheet.

Licensing

Enabling method   Node-locked using FlexNet licensing utility

System Requirements

Hardware

Processor: Intel and AMD processors, including multi-core versions

Memory: 1 GB recommended for voice applications; 2 GB recommended for audio/video applications; 4 GB recommended for high density applications

Disk Space: 500 MB required for full installation of PowerMedia HMP 4.1

System

- **IP-only solutions** — Single- or dual-processor, single- or multi-core platform with an Ethernet NIC (Note: 1000Base-T recommended)
- **Converged solutions** — Single- or dual-processor PCI platform with an Ethernet NIC and DNI Boards or gateways

Note: PowerMedia HMP 4.1 provides a very high level of flexibility in choosing media processing configurations, making it impossible to list all the available combinations of media processing resources in this datasheet. Contact your local Dialogic sales representative for help in configuring your system and in obtaining detailed system information specific to your configuration.

Operating System Support

32-bit operating system

- Red Hat Enterprise Linux Release 4 Update 5, 6, 7, and 8
- Red Hat Enterprise Linux Release 5 Update 2, 3, 4, and 5 (AS/ES/WS)
- SUSE Professional 9 Service Pack 4

64-bit operating system

- Red Hat Enterprise Linux Release 4 Update 7 and 8
- Red Hat Enterprise Linux Release 5 Update 4 and 5 (AS/ES/WS)
- SUSE Professional 11

Order Information

PowerMedia HMP 4.1 is available in preconfigured video resource license bundles and individual resource licenses. The tables below are provided as a guide. For full details, contact your Dialogic account manager or Dialogic sales representative.

Obtaining Third-Party Licenses

Using the AMR-NB and/or AMR-WB resource in connection with a Dialogic® product described herein does not grant the right to practice the standard(s). To seek a patent license agreement to practice the standard(s), contact the VoiceAge Corporation at http://www.voiceage.com/licensing.php.

Video Resource Bundles

Video resource bundles can be used to build video gateways, media servers, or integrated servers (media server and gateway).

The term "Media Server" in the Description column refers to multimedia resources.

The term "Gateway" in the Description column refers to 3G-324M resources.

The term "Advanced Video" in the Description column refers to the following functions: multimedia play/record, digit detection, half-duplex video transcoding, image adjustment, I-frame update, and text/image overlay.

All bundles include an AMR-NB coder resource.

Order Code	Description
HMP41SL8IAC8	8 Session Integrated [Media Server and Gateway] Advanced Video with Conferencing; supports 8 Half Duplex Video Transcoding
HMP41SL32IAC32	32 Session Integrated [Media Server and Gateway] Advanced Video with Conferencing; supports 32 Half Duplex Video Transcoding
HMP41SL64IAC64	64 Session Integrated [Media Server and Gateway] Advanced Video with Conferencing; supports 64 Half Duplex Video Transcoding
HMP41SL124IAC124	124 Session Integrated [Media Server and Gateway] Advanced Video with Conferencing; supports 124 Half Duplex Video Transcoding
HMP41SL32IA32	32 Session Integrated [Media Server and Gateway] Advanced Video; supports 32 Half Duplex Video Transcoding
HMP41SL64IA64	64 Session Integrated [Media Server and Gateway] Advanced Video; supports 64 Half Duplex Video Transcoding
HMP41SL124IA124	124 Session Integrated [Media Server and Gateway] Advanced Video; supports 124 Half Duplex Video Transcoding
HMP41SL32IA64	32 Session Integrated [Media Server and Gateway] Advanced Video; supports 32 Full Duplex [64 Half Duplex] Video Transcoding
HMP41SL64IA128	64 Session Integrated [Media Server and Gateway] Advanced Video; supports 64 Full Duplex [128 Half Duplex] Video Transcoding
HMP41SL124IA248	124 Session Integrated [Media Server and Gateway] Advanced Video; supports 124 Full Duplex [248 Half Duplex] Video Transcoding
HMP41SL248IAC248	248 Session Integrated [Media Server and Gateway] Advanced Video with Conferencing; supports 248 Half Duplex Video Transcoding
HMP41SL32IB	32 Port Integrated [Media Server and Gateway] Basic [Non-Transcoded] Video
HMP41SL64IB	64 Port Integrated [Media Server and Gateway] Basic [Non-Transcoded] Video
HMP41SL124IB	124 Port Integrated [Media Server and Gateway] Basic [Non Transcoded] Video
HMP41SL248IB	248 Port Integrated [Media Server and Gateway] Basic [Non Transcoded] Video
HMP41SL32MA32	32 Session Media Server with Advanced Video; supports 32 Half Duplex Video Transcoding
HMP41SL64MA64	64 Session Media Server with Advanced Video; supports 64 Half Duplex Video Transcoding
HMP41SL124MA124	124 Session Media Server with Advanced Video; supports 124 Half Duplex Video Transcoding
HMP41SL32MA64	32 Session Media Server with Advanced Video; supports 32 Full Duplex [64 Half Duplex] Video Transcoding
HMP41SL32MAC32	32 Session Media Server with Advanced Video and Conferencing; supports 32 Half Duplex Video Transcoding
HMP41SL64MAC64	64 Session Media Server with Advanced Video and Conferencing; supports 64 Half Duplex Video Transcoding
HMP41SL124MAC124	124 Session Media Server with Advanced Video and Conferencing; supports 124 Half Duplex Video Transcoding
HMP41SL32GA64	32 Session Gateway with Advanced Video; supports 32 Full Duplex [64 Half Duplex] Video Transcoding
HMP41SL64GA128	64 Session Gateway with Advanced Video; supports 64 Full Duplex [128 Half Duplex] Video Transcoding
HMP41SL124GA248	124 Session Gateway with Advanced Video; supports 124 Full Duplex [248 Half Duplex] Video Transcoding

Table 1. Video Resource Bundles

Dialogic® PowerMedia™ Host Media Processing Software Release 4.1LIN

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Individual Resources

Order Code	Type of Resource	Features
DMIPS10AMR41L	AMR-NB Coder	Adds AMR-NB coder capability
DMIPS10C41L	Conferencing	Includes advanced features, such as coach/pupil mode, tone clamping, and active talker notification
DMIPS10E41L	G.729, G.723 Coders	Adds the capability of transcoding a single channel using the G.723.1, G.729a, and G.729b coders. *Requires a Basic RTP Streaming Resource.*
DMIPS10F41L	Fax Termination	V.17 and T.38 fax termination enables unified messaging applications
DMIPS10G41L	3G-324M	Provides synchronization between voice and video streams for playback on IP video phones and video-enabled soft clients, and connection to a 3G network
DMIPS10I41L	IP Call Control	Provides call control stacks for SIP protocols
DMIPS10M41L	Multimedia	Provides audio and video resource for multimedia messaging; video format H.263 (Profile 0 level 10, 20, 30) and MEPG-4 (Simple Profile levels 0, 1, 2, 3). *Requires a Basic RTP Streaming Resource.*
DMIPS10NP41L	Native Play/Record	Allows play/record in a message's native format. *Requires a Basic RTP Streaming Resource.*
DMIPS10NS41L	Basic RTP Streaming	Provides a streaming digitized RTP or SRTP interface that enables hairpinning and is required for streams and for native play/record
DMIPS10R41L	G.711, G.726 Coders	Provides the capability of transcoding the G.711 coder with 10 ms, 20 ms, and 30 ms frames. *Requires a Basic RTP Streaming Resource.*
DMIPS10S41L	Speech Integration	Allows integration with speech engines for ASR and TTS support by using Dialogic® Continuous Speech Processing (CSP) APIs. *Requires a Voice Resource.*
DMIPS10V41L	Voice	Provides play with volume control, and record with AGC, DTMF, or user-defined tone detection and generation
DMIPS10G722Coder41L	HD Voice — G.722 Coder	Provides the capability of transcoding the G.722 coder
DMIPS10G722_2Coder41L	HD Voice — G.722.2 Coder (AMR-WB)	Provides the capability of transcoding the G.722.2 (AMR-WB) coder
DMIPS10HDConf41L	HD Conferencing	Provides enhanced conferencing for both HD and narrowband voice and includes advanced features, such as coach/pupil mode, tone clamping, and active talker notification

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