

Media Processing Module

On-demand Virtual Media Functions

Deploy integrated value added network and media functions with the Nimbra Media Processing Module. Adapt network and media services to the needs of each individual customer, application and workflow, on-demand and in real-time.

Software functions realized on a standard service delivery platform enables broadcasters and service providers to customize and tailor media and network functions to their specific operational needs, when needed and where needed. Virtualized network and media functions can be delivered as a service anywhere in the media network and at any event site.

Increase Value of the Media Network

With the Media Processing Module hosting network and media software functions, such as format conversion, video and audio processing, monitoring and encoding, service providers can offer customized services tailored to the needs of each individual customer and production workflow. This significantly increases the value of their network, and the value that the network operator provides to their customers. It also allows them to introduce new by-the-minute business models for both connectivity and media functions, so that the network operator can differentiate themselves and increase their broadcast business.

By delivering value added services through software based virtual network functions (VNFs) and virtual media functions (VMFs), services can be added, upgraded and modified dynamically without site visits and without adding additional hardware. The overall cost is reduced and at the same time new services and capabilities can be introduced with reduced lead time.

KEY FEATURES

- ◆ Flexible deployment of software-based media & networking functions
- ◆ Standard Linux based x.86 execution environment
- ◆ Integrated into the Nimbra media transport solution
- ◆ Automated service delivery with centralized orchestration

Media Functions On-demand

With orchestrated service delivery through Nimbra Vision and ScheduALL, the Nimbra Media Processing Module enables fully automated and customer self-provisioned distribution, deployment and configuration of network and media functions anywhere in the Nimbra network. This enables changes in real-time as well as booking media production and networking assets instantly or in the future, regardless of where that function is needed. It also enables innovative by-the-minute business models that lets broadcasters shift from an capex and upfront intensive cost base to an opex based model that better follows their needs over time.

KEY FEATURES

Standard x.86 software execution platform

The Nimbra Media Processing Module offers a standard x86 environment that enables added flexibility in terms of what applications to run where and when, by making multiple software based network and media functions available on the same platform

Dedicated hardware support for time critical applications

Dedicated special-purpose hardware resources are available for applications with high real-time demands. For instance, time and sync applications can utilize hardware support in the Media Processing Module for high accuracy time stamping of IP packets.

Automated service delivery

Centralized orchestration and on-demand deployment enables media and network functions to be deployed and executed anywhere in the Nimbra network, either at ingress/egress points, or at central processing/datacentre locations.

Integrated into the Nimbra media delivery platform

Video, audio and data services can be captured by the Media Processing Module itself or by any Nimbra node in the network through standard Nimbra MSR access modules and transported over the Nimbra network to an available Nimbra Media Processing Module for processing.

NIMBRA MEDIA FUNCTIONS

VSF TR-01

VSF TR-01 compliant transport of JPEG2000 compressed video enabling interoperability with 3rd party JPEG2000 equipment. Up to 12x TR-01 compliant JPEG2000 streams can be supported on one Media Processing Module, with up to 500 Mbps compressed video bitrate per stream.

Stream Protection

The stream protection function includes a number of mechanisms to protect live video streams from network failures and packet loss. FEC (SMPTE 2022-1), hitless 1+1 protection (SMPTE 2022-7) and launch delay offset can be enabled on individual video streams to provide the best trade-off between reliability, bandwidth overhead and latency.

TECHNICAL SPECIFICATIONS

Form factor	Plug-in unit for Nimbra 600 series, 1 slot	Environmental:	
Interfaces		Operating temp:	5 to 40°C (41 to 104°F)
Network	2x SFP+ 1G/10GBASE SR/LR/ER 2x RJ45 10/100/1000BASE-T	(short term)	-5 to 55°C (23 to 131°F)
Aux	1x RJ45 10/100/1000BASE-T	Storage temp	-40 to 70°C (-40 to 156°F)
CPU	Intel Xeon, D-1528 1,9Ghz	Relative humidity	10% to 90% (non-condensing)
RAM	8 GB, DDR4L-2133	Regulatory Compliance	
Storage	32 GB mSATA SSD	Safety:	UL60950, EN60950
Operating System	Linux Ubuntu 14	EMC	FCC 15 Class A, EN 300 386
Maintenance	Hardware hot-swap, remote software upgrade	CE marking	93/68/EE
Power consumption	<65W	Environment	RoHS directive 2002/95/EC
		Ordering:	
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