

# Media Acceleration Module

Accelerated Media Functions

Enable flexible deployment of high performing virtual media functions with the Media Acceleration Module, a generic execution environment with hardware acceleration for demanding media applications.

Increased demand for higher quality content such as Ultra HD/4K, VR and 360, together with more distributed production workflows and the shift to IP technologies, such as SMPTE ST-2110, means future media networks need to be both more agile and provide more capacity.

The Media Acceleration Module, a generic platform for accelerated media functions, enables flexible deployment of network and media functions in all existing Nimbra MSR networks. It serves as a hardware accelerated environment for the most demanding media applications, such as video encoding, monitoring, media processing and encryption.

## Improved flexibility with Nimbra Media Functions

The Media Acceleration Module is a 1-slot plug-in module for the Nimbra MSR 600 series for flexible deployment of high-capacity media functions. It offers a generic media function execution environment for value-added media and networking functions and can be deployed on any Nimbra MSR 600 unit.

With remote software upgrades, the Media Acceleration Module can be configured to run a wide range of different value adding Media and Networking Functions so that the Nimbra MSR network can quickly adapt to new and changing requirements.

## KEY FEATURES

- ◆ Flexible deployment of high-performing virtual media functions
- ◆ On-board dedicated hardware acceleration improves quality, performance & density
- ◆ Designed for both native and IP-based media applications

Previously, a change of production workflow from uncompressed to compressed, or switching between different compression schemes and video formats required in-field swap-outs to new equipment. With the Media Acceleration Module, any change of requirements is handled by loading another Nimbra Media Function. Centralized software management is supported through the Nimbra SDN Controller for improved operational efficiency.

## Stay on-top of emerging technologies

The media industry is undergoing a large technology shift to IP and cloud-based technologies, and technology update cycles are continuously getting shorter. Being successful means staying up-to-date with the latest technologies, without over investing. The Media Acceleration Module is designed to support a seamless shift to IP based workflows, with support for SMPTE ST-2022 and SMPTE ST-2110 in addition to native broadcast media standards.

## Hardware acceleration saves rack space and power

With on-board support for hardware acceleration and off-loading for demanding time-critical applications, the Media Acceleration Module offers the flexibility of software function virtualization without sacrificing density, quality and power consumption.

# NIMBRA MEDIA FUNCTIONS

## JPEG2000 Media Function

The Nimbra JPEG2000 Media Function offers the industry's highest density JPEG2000 solution with 20 HD channels per RU. Support for hitless 1+1 protection, low-latency encoding and visually lossless video quality makes it a perfect fit for demanding live contribution and remote production applications.

## 4K Ultra HD Media Function

With industry leading codec performance, and unique transport protection and sync features, the Nimbra solution for 4K Ultra HD transport guarantees pixel perfect delivery of Ultra HD content.

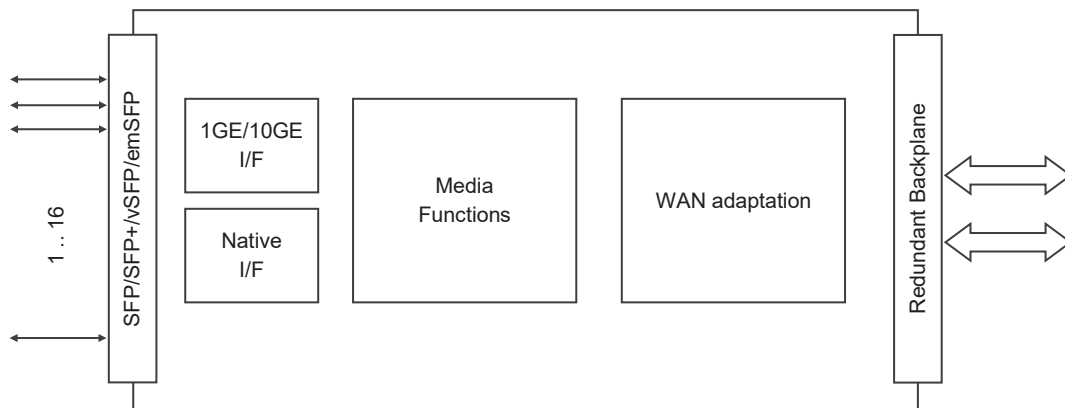
## Video Transport Media Function

Trouble-free transport of uncompressed video over IP. Per-channel configuration of video format and direction provides a versatile and flexible solution, and support for both SDI and IP video formats offers a seamless migration to future video formats.

## ASI Transport Media Function

With support for hitless 1+1 protection and unique disaster recovery mechanisms, the ASI Transport Media Function offers a highly reliable transport service. On-demand per-channel configuration together with centralized orchestration offers the flexibility and agility needed in future media networks.

## TECHNICAL SPECIFICATIONS



<b>Form factor</b>	Plug-in unit for Nimbra 600 series, 1 slot	<b>Environmental:</b>	
<b>Interface</b>		Operating temp:	5 to 40°C (41 to 104°F)
Connector type	SFP, SFP+, Video SFP, emSFP	(short term)	-5 to 55°C (23 to 131°F)
Interface type	Ethernet: 1G/10GBASE SR/LR/ER Video: SMPTE 297-2006, emSFP	Storage temp	-40 to 70°C (-40 to 156°F)
Number of ports	SFP+: 8 ports, Video SFP: 16 ports configurable as input or output per SFP cage	Relative humidity	10% to 90% (non-condensing)
<b>Sync</b>		<b>Regulatory Compliance</b>	
Connector type	HD BNC, 75 Ohm	Safety:	UL60950, EN60950
Number of ports	2 (1 In + 1 out)	EMC	FCC 15 Class A, EN 300 386
<b>Maintenance</b>	Hardware hot-swap, remote software upgrade	CE marking	93/68/EE
<b>Power Consumption</b>	<60W	Environment	RoHS directive 2002/95/EC
		<b>Ordering:</b>	
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