

HIGHLIGHTS

- Provides support for ProMedia Origin
- High density 1-RU platform can ingest 40 channels (or 240 Mbps aggregate bit-rate) and egress up to 1 Gbps throughput in HTTP adaptive bit-rate and progressive download formats
- 1-RU base model with 300 GB of usable storage for live-only deployments
- 3-RU model with 6 TB disk array suitable for small scale deployments
- Integrated with Harmonic MediaGrid network-attached storage with capacity ranging from 12 TB to 1 PetaByte
- Web-based GUI
- Built-in firewall
- System and audit-trail logging
- Platform lockdown and anti-virus support
- Service monitoring and recovery
- Remote software update
- Configuration backup / restore
- Dual input, output and control ports
- Carrier grade management system with NMX Digital Service Manager monitoring and control supporting N+M redundancy

Harmonic's ProMedia™ 2000 application server offers support for the ProMedia Origin software.

Featuring a web-based GUI, the ProMedia 2000 appliance removes the need for the operator to interact with the underlying operating system and potentially adversely impacting the system's operations. The GUI interface also allows audit-trail logging of user actions, easing troubleshooting, and provides the ability to backup and restore complete system configurations, quickly restoring service in the event of failure. Automatic service monitoring and recovery capabilities of the ProMedia 2000 application server ensure trouble-free operation, and it can be managed/monitored by Harmonic's NMX™ Digital Service Manager.

To provide a high level of security, the operating system is locked down with all unnecessary services disabled, anti-virus software is installed, code signing is enabled to prevent users and intruders from executing unauthorized software, and the firewall is enabled and automatically configured to only open ports on interfaces that are required for operation. Software updates to ProMedia Origin and required Windows patches can all be applied remotely.

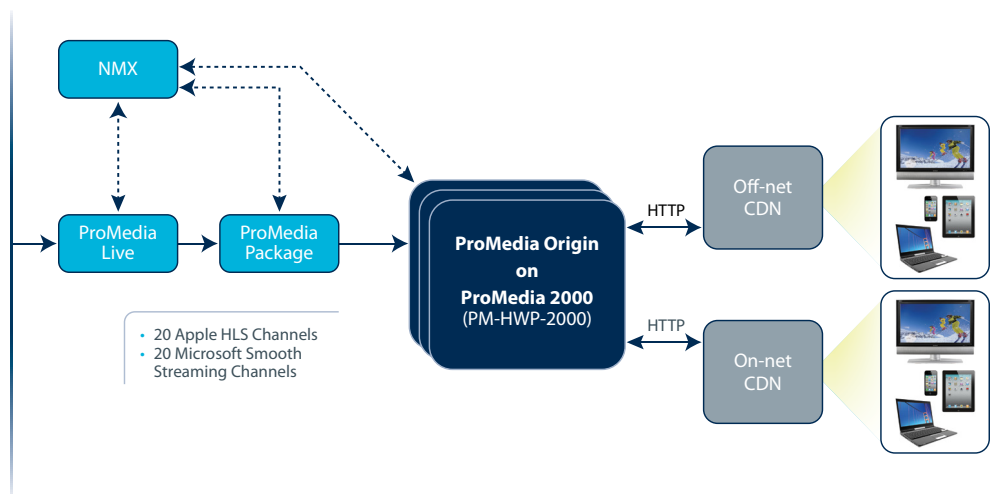
ProMedia Origin and the ProMedia 2000 server can be used with Harmonic MediaGrid shared storage to enable highly scalable storage expansion and fault tolerance. The MediaGrid storage File System Drive (FSD) is installed on the ProMedia 2000.

CONFIGURATIONS

The ProMedia 2000 is a high-density platform with performance benchmarks tested by Harmonic.

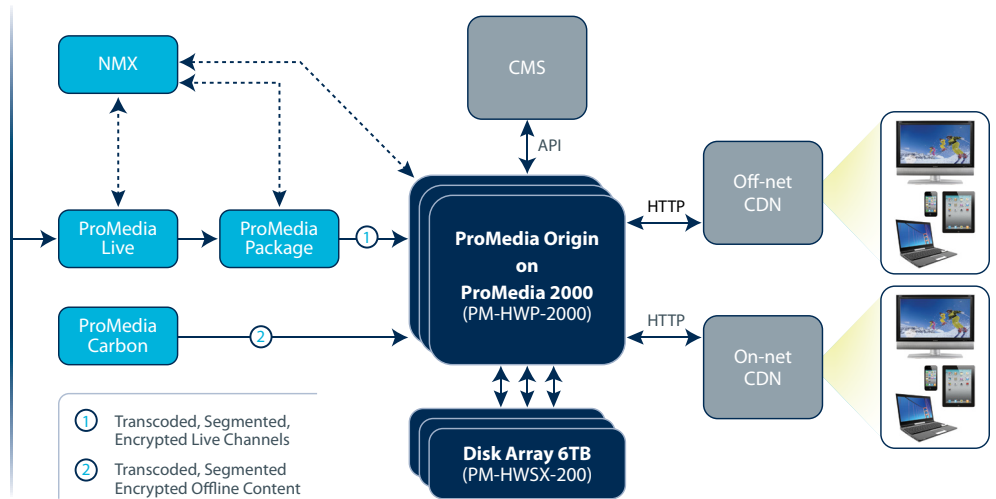
Live Streaming

The following configuration demonstrates the ProMedia 2000 delivering 20 Apple HTTP Live Streaming and 20 Microsoft Smooth Streaming services to multiple CDNs concurrently.



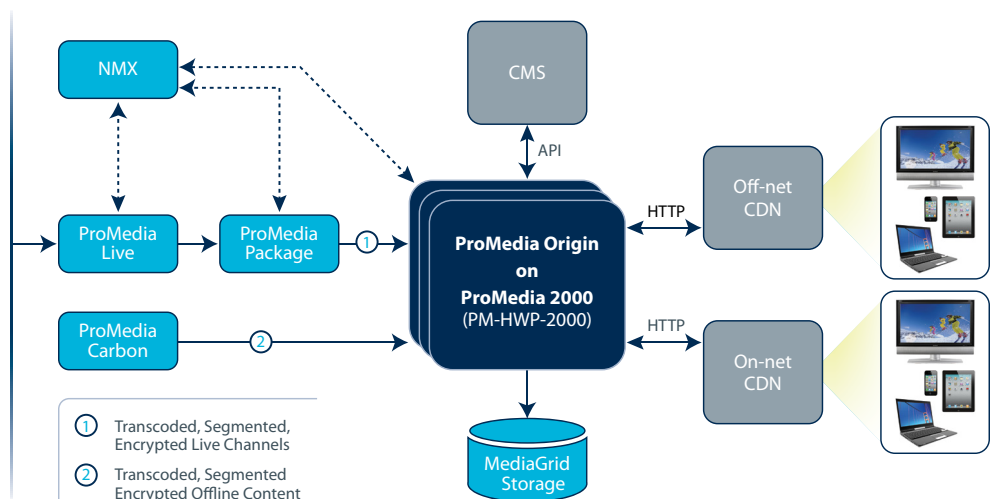
Small Scale Live + VOD Streaming

When deploying live channels and VOD assets, the ProMedia Origin 2000 (PM-HWP-2000) with disk array (PM-HWSX-200) provides ingest capacity for 40 channels plus 6 terabytes of content storage. This configuration is suitable for small scale deployments where live and VOD applications are required in the system.



Medium to Large Scale Live + VOD + Catch-up TV Streaming

The ProMedia Origin 2000 utilizing MediaGrid storage streamlines scalability of ingest, stream and storage capacity. Storage can be expanded to the petabyte range with the addition of more storage servers, which is often required for catch-up TV or network PVR applications. Multiple ProMedia Origin 2000 devices can be deployed while sharing common storage. Management of the ProMedia Origin 2000 farm is simple using NMX to perform monitoring, configuration and provisioning in a centralized manner NMX also enables N:M ProMedia Origin server redundancy.



PART NUMBER: PM-HWP-2000

POWER

Input Voltage Range	90-264 VAC
Power Supply	Redundant
Line Frequency	47-63 Hz
Typical Consumption	502 W
Heat Dissipation	1712.9 BTU/hr Maximum

PHYSICAL

Dimensions (W x H x D)	16.69 in x 1.68 in x 29.02 in (1-RU) 42.4 cm x 4.26 cm x 73.73 cm
Weight	39 lbs / 17.69 kg

IO

Management Ports	4 GbE ports
Data	4 GbE ports (optionally configured as 2 teams of 2 ports providing switch fault tolerance)
Storage Connection	2x mini SAS (4-lane) ports

STORAGE

Capacity	300 GB (Expandable to 6 TB with PM-HWSX-200 or higher with MediaGrid)
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ENVIRONMENTAL

Cooling	Air flow front to side
Operating Temperature Range	50° to 95° F (10° to +35° C)
Storage Temperature Range	-40° to +159° F (-40° to +65° C)
Operating Relative Humidity	20% to 80% non-condensing with a maximum humidity gradation of 10% per hour
Non-Operative Humidity	5% to 95% non-condensing with a maximum humidity gradation of 10% per hour
Operating Maximum Vibration	0.26 Gms from 5-350 Hz for 5 minutes
Non-Operating Maximum Vibration	1.54 Gms from 10-250 Hz for 10 minutes
Operating Altitude	-16 to 3,048 m (-0 to 10,000 ft) <i>NOTE: For altitudes above 2950 feet, the maximum operating temperature is derated 1° F/550 ft</i>
Non-Operating Altitude	-16 to 10,600 m (-50 to 35,000 ft)
Electromagnetic Compliance	ACMA or C-Tick, BELLIS, KVALITET, ICES, CNCA or CCC, KONCAR, CE, SII, VCCI, OTA-CKT, INSM, NEMKO, GOST, SABS, KCC, BSMI, UKRTEST or UKRSERTCOMPUTER, FCC, STZ, ICT
Product Materials Information	EU RoHS, EU REACH, China RoHS

PART NUMBER: PM-HWSX-200

POWER

Input Voltage Range	100-240 VAC
Power Supply	Redundant
Line Frequency	50/60 Hz
Typical Consumption	600 W
Heat Dissipation	1147 BTU/hr (188W)

PHYSICAL

Dimensions (W x H x D)	18.98 in x 3.43 in x 21.30 in (2-RU) 48.2 cm x 8.7 cm x 54.1 cm
Weight	51 lbs / 23.31 kg

IO

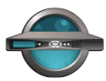
Data	2 x mini SAS (4-lane) ports
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STORAGE

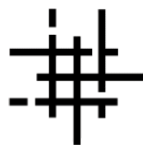
Capacity	6 TB
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ENVIRONMENTAL

Cooling	Air flow front to side
Operating Temperature Range	50° to 95° F (10° to +35° C)
Storage Temperature Range	-40° to +159° F (-40° to +65° C)
Operating Relative Humidity	8% to 85% non-condensing with a maximum humidity gradation of 10% per hour
Non-Operative Humidity	5% to 95% non-condensing
Operating Altitude	-16 to 3,048 m (-0 to 10,000 ft)
Non-Operating Altitude	-16 to 10,600 m (-50 to 35,000 ft)
Electromagnetic Compliance	ACMA or C-Tick, BELLIS, KVALITET, ICES, KONCAR, CE, SII, VCCI, OTA-CKT, INSM, GOST, SABS, KCC, BSMI, UKRTEST or UKRSERTCOMPUTER, FCC, STZ
Product Materials Information	EU RoHS, EU REACH, China RoHS



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