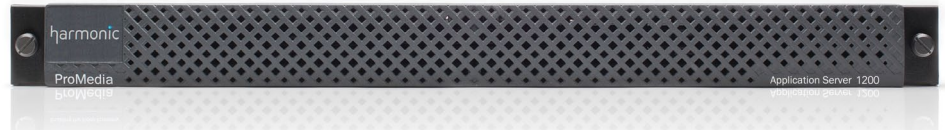


HIGHLIGHTS

- High-density 1-RU platform
- Supports ProMedia Live real-time transcoder and ProMedia Package multiscreen stream packager
- Web-based GUI
- System and audit-trail logging
- Platform lockdown and anti-virus support
- Service monitoring and recovery
- Remote software update
- Configuration backup/restore
- NMX Digital Service Manager monitoring and control



The ProMedia™ 1200 application server is a carrier-grade hardware platform optimized for the demanding performance requirements of high-quality adaptive bitrate streaming applications. A member of the comprehensive Harmonic family of ProMedia multiscreen production and delivery solutions, the server provides high density and high performance for transcoding baseband SD and HD content into multiple streams of H.264 video optimized for adaptive bitrate delivery. It is designed specifically for hosting the ProMedia Live real-time transcoder and ProMedia Package stream packager software applications, either individually or as a bundled transcoding/packaging solution.

As with all ProMedia application servers, the ProMedia 1200 features the highest levels of security and stability. There is no need for operator interaction with the underlying Windows® OS—the server is delivered with all unnecessary services disabled. Antivirus software is installed, code signing is enabled to prevent users and intruders from executing unauthorized software, and the firewall is configured to only open ports on the interfaces required for operation. Software updates and required Windows patches can all be applied remotely.

The ProMedia 1200 server allows audit-trail logging of user actions to ease troubleshooting, and provides the ability to backup and recall complete system configurations for quick service restoration in the unlikely event of failure. It can be controlled with Harmonic's NMX™ Digital Service Manager video network management system, or with a web-based GUI to enable remote monitoring and management, and features N+M redundancy. Windows patches and software updates to ProMedia Live and ProMedia Package can be applied remotely.

CONFIGURATIONS

ProMedia 1200 can host individual instances of ProMedia Live and Package, or both applications on a single chassis. Performance is dependent on the actual requirements per service.

PROMEDIA LIVE

When hosting the ProMedia Live transcoder, ProMedia 1200 supports direct input of up to four SD/HD services via four SDI ports, and up to 10 MPEG-2 and H.264 services via transport stream. Up to 10 SD or four HD profiles may be transcoded simultaneously.

PROMEDIA PACKAGE

When hosting the ProMedia Package stream packager, ProMedia 1200 enables input of up to 200 H.264 input profiles, and delivery of up to 40 Apple® HLS, Microsoft® Smooth Streaming, Adobe® RTMP and HDS, and MPEG-DASH streams.

PROMEDIA LIVE + PACKAGE

As the host for both ProMedia Live and ProMedia Package, ProMedia 1200 simultaneously delivers up to six adaptive bitrate streams. Input for this configuration is up to 18 Mbps, H.264 High Profile, 1920 x 1080i.



H.264 PERFORMANCE BENCHMARKS

Profile	Profile	Width	Height	Bit-rate kbps
1	Main	720	404	1200
2	Main	720	404	1000
3	Main	480	270	800
4	Baseline	480	270	600
5	Baseline	480	270	300
6	Baseline	240	136	180
7	Baseline	240	136	80
8	Baseline	240	136	10

SPECIFICATIONS

PROCESSING

Number of Processors	Four (two per motherboard)
Processor Type	Intel E5-2670 (eight-core), 2.6 GHz, 20 MB CPU cache
CPU Cores	32
CPU Cache	80 MB
RAM	32 GB
Drives	16-GB SSD
Ethernet Ports	12
Operating System	Windows Server 2008 R2
Mean Time Between Failure (MTBF)	112,734 hours

VIDEO INPUTS

SD-SDI (SMPTE-259M)/HD-SDI (SMPTE-292M)	Up to four channels
MPEG-2 SD/HD, CBR/VBR	Up to 10 channels delivered as transport stream/UDP
MPEG-4 AVC SD/HD, CBR/VBR	Up to 10 channels delivered as transport stream/UDP
Redundancy	IP input source redundancy Mirrored IP output N+M unit redundancy

POWER

Input Voltage Range	100-254 VAC
Power Supply	Single
Line Frequency	47-63 Hz
Typical Consumption	604 W nominal 1,200 W maximum
Heat Dissipation	4,090 BTU/hr. maximum

PHYSICAL

Dimensions (W x H x D)	17.2 in x 1.7 in x 27.75 in (1 RU) 43.7 cm x 4.3 cm x 70.5 cm
Weight	40 lbs/18.1 kg

ENVIRONMENTAL

Cooling	Six fans, air flow front to side
Operating Temperature Range	50° to 95° F (10° to +35° C)
Non-Operating Temperature Range	-40° to +158° F (-40° to +70° C)
Operating Relative Humidity	8% to 90% non-condensing
Non-Operative Humidity	5% to 95% non-condensing
Electromagnetic Compliance	FCC Part 15 Class A, CE Mark (EN 55022 Class A), UL, CUL Canada EN 60950/IEC 60950-Compliant, TUV Germany, ROHS 5/6 - Directive 2002/EC
Product Materials Information	EU RoHS EU REACH

