

HIGHLIGHTS

- High density 1-RU platform supporting ProMedia Live and ProMedia Package
- SD/HD-SDI and MPEG-2/MPEG-4 AVC (H.264) inputs
- Transcode up to 10 SD or 4 HD profiles or package up to 200 input profiles
- Web-based GUI
- System and audit-trail logging
- Platform lockdown and anti-virus support
- Service monitoring and recovery
- Remote software update
- Configuration backup/restore
- Carrier-grade management system with NMX digital service manager supporting N+M redundancy



The Harmonic ProMedia™ 1100 and 1104 application servers offer support for the software-based ProMedia Live real-time transcoder and ProMedia Package stream preparation system, either individually or deployed together as a seamlessly integrated solution. The servers are part of the comprehensive Harmonic family of ProMedia multiscreen production and delivery solutions.

The ProMedia 1100 and 1104 servers provide an efficient platform for transcoding baseband SD and HD or MPEG-2 or MPEG-4 AVC (H.264) content into multiple streams of H.264 video optimized for adaptive bitrate delivery. The ProMedia 1100 features four GbE ports, RS-422 support and VDCP ingest; the ProMedia 1104 adds four SD-SDI/HD-HDI ports to the feature set.

As with all ProMedia application servers, the ProMedia 1100 and 1104 feature the highest levels of security and stability. There is no need for operator interaction with the underlying Windows® OS — the servers are 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 servers allow audit-trail logging of user actions to ease troubleshooting, and provide the ability to backup and restore complete system configurations for quick service restoration in the unlikely event of failure.

The ProMedia 1100 and 1104 appliance servers employ a web-based GUI to enable remote monitoring and management. Both servers can also be controlled by Harmonic's NMX™ Digital Service Manager.



CONFIGURATIONS

The ProMedia 1100 and 1104 are high-density platforms and their performance is dependent on the actual requirements per service.

ProMedia Live

ProMedia Live can be configured with the ProMedia 1104 server to support real-time SD/HD-SDI and MPEG-2/MPEG-4 AVC encoding.

ProMedia Package

When configured only with ProMedia Package, the ProMedia 1100 and 1104 servers deliver 40 services per unit.

POWER

Input Voltage Range	100-240V
Power Supply	Dual
Line Frequency	47-63Hz
Typical Consumption	301W nominal 491W maximum
Heat Dissipation	1675.4 BTU/hr maximum

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	39 lbs/17.69 kg

I/O

Video Input	4 x SD-SDI (SMPTE-259M)/HD-SDI (SMPTE-292M) ports (1104 only)
Audio Input	Embedded audio Up to 3 stereo pairs or one multi-channel per video service
Data Input	4 x 10/100/1000BaseT ports
Data Expansion	4 x 10/100/1000BaseT ports
Remote Management	1 x 10/100BaseT (iDRAC) port
System Disk	100-GB 2.5" solid-state drives

ProMedia Live + Package

The following configurations running on a ProMedia 1100 or 1104 server simultaneously deliver Apple® HTTP Live Streaming, Microsoft® Smooth Streaming and Adobe® HTTP Dynamic Streaming outputs to publishing points, allowing up to six services to be delivered per unit. Input for this configuration is up to 18 Mbps, H.264 high profile, 1920x1080i.

Profile	Codec	Profile	Width	Height	Bit-rate kbps
1	H.264	Main	720	404	1200
2	H.264	Main	720	404	1000
3	H.264	Main	480	270	800
4	H.264	Baseline	480	270	600
5	H.264	Baseline	480	270	300
6	H.264	Baseline	240	136	180
7	H.264	Baseline	240	136	80
8	H.264	Baseline	240	136	10

VIDEO SPECIFICATIONS

Closed Captioning	CEA 608 from Line 21 CEA 708 VANC extraction per SMPTE 334M CEA 708 external caption server per SMPTE 333M
Legacy Support Options	608 to 708 conversion
Ancillary Data and VBI	Digitized waveform or VANC extraction per SMPTE 2031 AFD and Bar, VITC

ENVIRONMENTAL

Cooling	Air flow front to back
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
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



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