

Digital Media Platform

DMP900



OVERVIEW

The DMP900 is Wellav's most advanced product for service operators. It provides proven headend technology in a compact, 1RU chassis. With wide variety of different input and output module options that can be combined as needed, it offers a true, comprehensive video delivery solution.

Whether it is for multiplexing, receiving, encoding, modulating, scrambling or descrambling applications, the DMP900 provides more capacity, flexibility and reliability while requiring less space, fewer connections and less power.

KEY FEATURES

- Any input to any output capability
- Dense and modular design: 1RU with up to 6 modules
- Supports up to 6Gbps video multiplexing and TS stream multiplexing/grooming
- Stream/Port/Service level redundancy
- Supports EIT multiplexing and EPG/SI insertion (both DVB and ATSC standard)
- Hot swappable, dual, redundant power supply
- Easy configuration tools: Web-UI and SNMP
- Easy upgrades to support new technologies by swapping modules
- Low power consumption and high reliability with MTBF $\geq 100,000$ hours
- Multi-function: multiplexing, receiving, encoding, modulation, scrambling and more

APPLICATIONS

Encoding/Transcoding

- Up to 10 SD or HD programs of encoding
- Multi-audio MPEG/AAC/AC3 encoding

Receiving/Digital-Turn-Around

- 20 channels or frequencies of DVB-S/S2/C/T/T2, ISDB-T and 8VSB receiving
- Descramble, remultiplex and pass-through to ASI, IP or RF output

Modulation

- Up to 48 channels of QAM modulating
- 16 channels of trans-modulation to QAM (from DVB-S/S2/T/T2, ISDB-T or 8VSB)

Stream Processing

- Up to 6Gbps processing (approx. 1500 programs)
- 24 ASI ports of multiplexing
- 20 ports ASI to IP gateway
- Internal multiplexing or pass-through capabilities
- EIT multiplexing
- Supports SI and EPG data insertion

SPECIFICATIONS

Digital Media Platform

CHASSIS	
Capacity	6Gbps (approx. 1500 programs)
Slot Number	6 hot-swappable slots

MULTIPLEXING	
Routing	Any input to any output
Table Supported	SI/PSI/PSIP
PID Processing	Pass-through, remapping, filtering
EIT Processing	Re-multiplexing and pass-through
External Data	EPG and SI insertion

MANAGEMENT	
Hardware Interface	1 x RJ45 (100Mbps)
User Interface	LED indicators
	LCD screen
	Front panel control
	Web UI & NMS
	SNMP (monitoring only)
	WMS1 (Wellav Centralized Manager for N+M backup, optional)

PHYSICAL & ENVIRONMENT	
Input Voltage	90~260 VAC
Dual Power Supply	Support, hot-swappable
Power Consumption	Max. 120W (fully loaded)
Chassis Dimension	480mm x 44mm x 490mm (WxHxD), 1RU
Operating Temperature	0°C ~50°C
Storage Temperature	-10°C ~70°C
Operating Humidity	<95%
MTBF	≥100,000 hours

ORDERING INFORMATION

Digital Media Platform

Model	Description
WAV-DMP900-CHASSIS	Standard 1RU chassis with 6 slots, AC redundant hot-swappable dual power supply
WAV-DMP900-CHASSIS-DC	Standard 1RU chassis with 6 slots, 48V DC redundant hot-swappable dual power supply
WAV-DMPSMP-DVBS2-V2	DVB-S/S2 receiving module (4CH, or 2CH with 16/32APSK), supports multi-stream receiving
WAV-DMPSMP-DVBC	DVB-C receiving module (4CH, Annex A/C)
WAV-DMPSMP-QAM-B	QAM-B receiving module (4CH, Annex B)
WAV-DMPSMP-8VSB	8VSB/ATSC receiving module (4CH)
WAV-DMPSMP-DVBT2	DVB-T2/T receiving module (4CH)
WAV-DMPSMP-ISDBT-V2	ISDB-T receiving module (4CH)
WAV-DMPSMP-TSIP-PLUS	Enhanced TSIP module (2 x SFP+2 x RJ45, 256In256Out)
WAV-DMPSMP-TSIP	TS-IP I/O module (2 x SFP+2 x RJ45, 64In32Out, 16In256Out or 256Out)
WAV-DMPSMP-CI	Descrambling module (2 CI slots, CAS or BISS options)
WAV-DMPSMP-CAS-PLUS	Scrambling module (CAS options)
WAV-DMPSMP-IQAM	Non-adjacent QAM modulating module (max. 16CH, Annex A/C or B)
WAV-DMPSMP-EN2SDI-2HV30X	MPEG-2/4 HD/SD SDI/CVBS encoder (2CH, MPEG1L2, AAC, AC-3 options)
WAV-DMPSMP-DECODER-HD	2-SD&HD, SDI&HDMI decoder module
WAV-DMPSMP-DECODER-SD	4 x CVBS decoder