

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 over 30 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, transcoding, 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, transcoding, modulation, scrambling and more

APPLICATIONS

Encoding/Transcoding

- Up to 20 SD or HD programs of encoding
- Up to 40 SD or 10 programs of transcoding
- 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 40 channels of QAM modulating
- Up to 20 channels of OFDM/DVB-T 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 chassis with 6 slots
WAV-DMP900-CHASSIS-DC	48V DC 6-slot chassis
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-IP-ASI	2-in-1 IP/ASI module (2 x RJ45+2 x ASI, 64In32Out)
WAV-DMPSMP-DS3	DS3 module (4 x BNC, input or output configurable)
WAV-DMPSMP-ASI-SWITCH	ASI switch module (5CH)
WAV-DMPSMP-CI	Descrambling module (2 CI slots, CAS or BISS options)
WAV-DMPSMP-CAS-PLUS	Scrambling module (CAS, BISS or AES options)
WAV-DMPSMP-IQAM	Non-adjacent QAM modulating module (max. 16CH, Annex A/C or B)
WAV-DMPSMP-QAM	QAM modulating module (8CH@Annex A/C or 4CH@Annex B)
WAV-DMPSMP-LQAM	QAM modulating module (4CH@Annex A/C, 1 or 2CH@Annex B, local RF combination)
WAV-DMPSMP-OFDM-MOD-4CH	OFDM modulating module (4CH)
WAV-DMPSMP-8VSB-MOD-2CH	8VSB modulating module (2CH)
WAV-DMPSMP-ISDBT-MOD-1CH	ISDBT modulating module (1CH)
WAV-DMPSMP-SCR-QAM	QAM with scrambling (max. 8CH, Annex A/C)
WAV-DMPSMP-EN4AV-4M2B00	MPEG-2 or 4 SD CVBS encoding module (4 SD programs)
WAV-DMPSMP-EN4SDI-2M2Axx	H.264 HD/SD or MPEG-2 SD SDI/CVBS encoding module (2CH, MPEG1L2, AC-3, AAC options)
WAV-DMPSMP-EN4HDMI-xM2Axx	H.264/MPEG2 HDMI encoder (max. 4 x H.264 SD/HD or 4 x MPEG-2 SD, MPEG1L2, AAC, AC-3 options)
WAV-DMPSMP-EN2SDI-2HD	MPEG-2/4 HD/SD SDI/CVBS encoder (2CH, MPEG1L2, AAC, AC-3 options)
WAV-DMPSMP-EN4SDI-HDM	H.264/MPEG-2 SDI low-bitrate HD/SD encoder (1 HD or 2 SD, multiple audio per service)
WAV-DMPSMP-EN5-1U-4H	1CH UHD or 4CH HD HEVC/H.265 encoding module (4 x SDI, 1 x HDMI)
WAV-DMPSMP-TC4-2M2Axx	Transcoder to 2 x H.264 SD/HD or MPEG-2 SD (MPEG1L2, AAC, AC-3 options)
WAV-DMPSMP-TC4-4M2Axx	Transcoder to 2 x H.264 HD or 4 x MPEG-2/4 SD (MPEG1L2, AAC, AC-3 options)
WAV-DMPSMP-TC4-2M2B00	Transcoder to 2 x H.264/MPEG-2 SD (MPEG1L2)
WAV-DMPSMP-TC4-4M2B00	Transcoder to 4 x H.264/MPEG-2 SD (MPEG1L2)
WAV-DMPSMP-TCHD-M	Low bit-rate transcoder to H.264/MPEG-2 HD/SD programs (2CH HD-to-HD or 8CH SD-to-SD)
WAV-DMPSMP-TCMS-M	Multi-screen low-bit transcoder (2CH, with up to 7 profiles per channel)
WAV-DMPSMP-DECODER-HD	2-SD&HD, SDI&HDMI decoder module
WAV-DMPSMP-DECODER-SD	4 x CVBS decoder

*All the modules are not listed here due to page limitation, please find us if you can't find or need more details.