

# DMP900

Digital Media Platform



## INTRODUCTION

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

### 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

### 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)

## SPECIFICATIONS

Chassis	
Capacity	6Gbps (approx. 1500 programs)
Slot Quantity	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

## ORDER INFORMATION

Model	Description
<b>Chassis</b>	
DMP900-Chassis	Standard 1RU chassis with 6 slots, AC redundant how-swappable dual power supply
DMP900-Chassis-DC	Standard 1RU chassis with 6 slots, 48V DC redundant how-swappable dual power supply
<b>Receiver Module</b>	
DVBS2	DVB-S/S2 receiving module (4CH, or 2CH with 16/32APSK), supports multi-stream receiving
DVBC	DVB-C receiving module (4CH, Annex A/C)
DVBC-01	DVB-C receiving module (4CH, Annex B)
8VSB	8VSB/ATSC receiving module (4CH)
ISDBT	ISDB-T receiving module (4CH)
<b>De-/Scrambler Module</b>	
CI	Common interface module (2 CAM slots)
CI-BISS	Biss descrambler, 16 x TS
Scrambler+	DVB scrambler, CAS version (150 programs)
<b>I/O Module</b>	
TSIP	TSIP with SFP (64In 32Out)
TSIP+	TSIP module (2 x SFP+2 x RJ45, 256In256Out@SPTS or 128In128Out@MPTS)
ASiv2	ASI module (5 In or Out)
IPASI	IP/ASI module, with 2 x RJ45+2 x ASI ports (64In32Out)
SWITCH	ASI switch module, 5CH ASI switch module
<b>Modulator Module</b>	
QAM	QAM modulator (8CH, Annex A/C)
SQAM	QAM modulator (8CH, Annex A/C, w/Scrambler, w/o IP)
IQAMv2	Non-adjacent QAM modulator (16 x QAM, Annex A/C)
IQAMv2-01	Non-adjacent QAM modulator (8 x QAM, Annex A/C)
IQAMv2-02	Non-adjacent QAM modulator (16 x QAM, Annex B)
IQAMv2-03	Non-adjacent QAM modulator (12 x QAM, Annex B)
IQAMv2-04	Non-adjacent QAM modulator (8 x QAM, Annex B)
QAMB	QAM modulator (4CH, Annex B)
OFDM	OFDM modulator (4CH)
SOFDM	OFDM modulator (4CH, w/Scrambler, w/o IP)
<b>Encoder Module</b>	
ENAUDIO	4CH audio encoder module, support RCA, balanced and unbalanced XLR or unbalanced AES/EBU input connector with designated adaptor cable, MPEG1L2 (support)
EN2SDI-2Hv300	H.264/MPEG-2 encoder, 2 SD/HD, SDI/CVBS, teletext encoding, MPEG1L2 (support)
EN2SDI-2Hv301	H.264/MPEG-2 encoder, 2 SD/HD, SDI/CVBS, teletext encoding, MPEG1L2 (support), AAC (support), AC3 (support)
<b>Decoder Module</b>	
Decoder-AV	Decoding module (2 HD or 4 SD, CVBS), MPEG1L2 (support), AC3 (optional), AAC (optional)
Decoder-CCV2	Decoding module (2CH, SD/HD, SDI/HDMI), with CC (100T chipset), MPEG1L2 (support), AC3 (optional), AAC (optional)