

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 |
|-----------------------------|---|
| Chassis | |
| 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 |
| Receiver Module | |
| 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) |
| De-/Scrambler Module | |
| CI | Common interface module (2 CAM slots) |
| CI-BISS | Biss descramber, 16 x TS |
| Scrambler+ | DVB scrambler, CAS version (150 programs) |
| I/O Module | |
| TSIP | TSIP with SFP (64In 32Out) |
| TSIP+ | TSIP module (2 x SFP+2 x RJ45, 256In256Out@SPTS or 128In128Out@MPTS) |
| ASlv2 | 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 |
| Modulator Module | |
| 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) |
| Encoder Module | |
| 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) |
| Decoder Module | |
| 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) |

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