

3G Video Media Converter and 6-Channel Distribution Amplifier

Integrated Optical/Electrical Distribution Amplifier Simplifies Routing and Coax to Fiber Media Conversion of 3G/HD/SD Digital Video Signals. 6 modes of operation. Available with optional mode control via web enabled port.



**Enhanced
Video
Solutions**

Product Overview

The VMDA series is a unique Distribution Amplifier and Video Media Converter, which offers the user the flexibility needed for today's 3G/HD/SD Field Production work.

The VMDA offers user selectable modes for distribution of SMPTE 297M compatible 3G/HD/SD Traffic. Based on six efficient configurations, this device accommodates situations most common to production work.

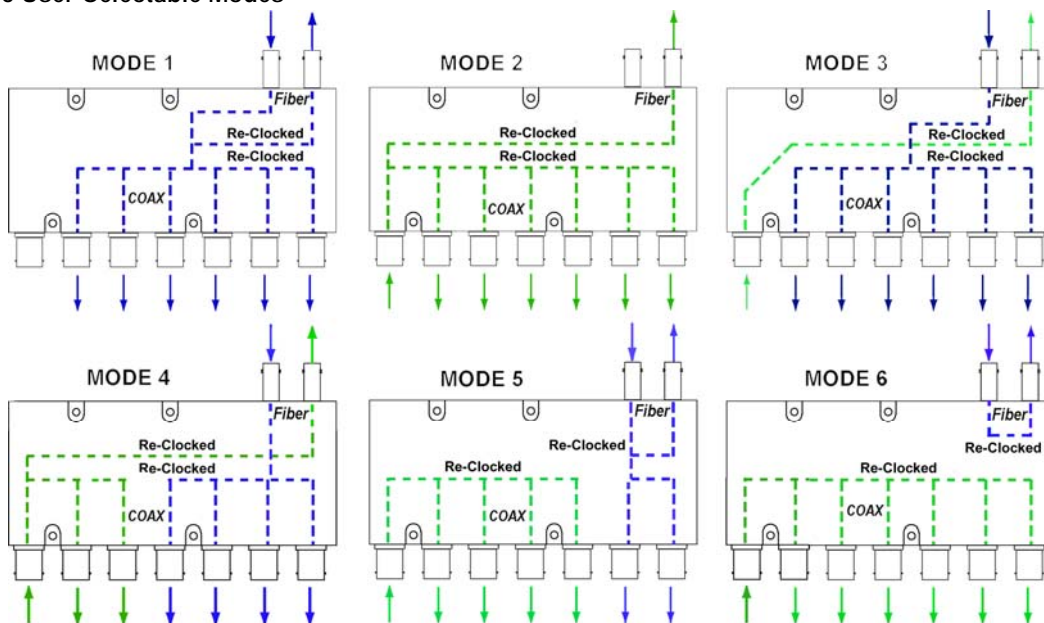
Key Features

- SMPTE 424M Compliant (up to 2.97Gbps)
- SMPTE 297M Optical Interface Compliant
- SMPTE 292M Compliant (Up to 1.485Gbps)
- SMPTE 259M/297M/305M Compatible (Up to 540 Mbps)
- DVB/ASI Compatible
- MADI Compatible if on 75 Ohm BNC (125 Mbps)
- ATSC/SMPTE 310M Compatible (19.4 to 38.8 Mbps)
- Error Free Pathological Pattern Operation
- BNC Ground isolation > 50 VDC
- All Signals Internally Re-Clocked for Added Signal Integrity
- Available with web enabled mode control port

Key Features

- INPUTS/OUTPUTS
 - SMPTE 297M
 - One "ST" Singlemode Fiber Input
 - One "ST" Singlemode Fiber Output
 - SMPTE 292M/259M and DVB/ASI
 - One 75 ohm BNC Electrical Video Input
 - Six 75 ohm BNC Selectable Electrical Video Outputs
- 6 User-Selectable Optical/Electrical Modes with Intuitive LED Indications and Signal Flow Arrows
- Non-Volatile Memory Retains Prior Mode Setting if Power is Interrupted.
- Wall Plug Power Supply: 110-240 VAC to 12 VDC with XLR connector or User Supplied 12 VDC Supply. (Power supply sold separately.)
- RoHS-6 Compliant
- Convenient size yet durable for demanding field use: (Dimensions include ST's with dust cover and BNC's)
 - 6.9 inch x 5.0 inch x 1.7 inch
 - 174 mm cm x 126 mm x 42 mm

6 User-Selectable Modes



Advanced Fiber Products LLC
200 East Howard Ave, Suite 204
Des Plaines, IL, USA 60018
Tel: +1-847-768-9001
E-mail: video@afpgco.com

wholly owned subsidiary of
Advanced Fiber Products Ltd
Hollands Road
Haverhill, Suffolk
England CB9 8PR

Tel: +44 (0) 1440-706441
Tel USA: +1-909-576-5854
Fax: +44 (0) 1440-762044
E-mail: sales@afpgco.com



www.afpgco.com

VMDA-Z Series Product Sheet
Rev 12317.00
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6 User-Selectable Modes

| Mode | Inputs | Outputs |
|------|---------|-----------------------|
| 1 | 1 Fiber | 1 Fiber and 6 Coax |
| 2 | 1 Coax | 1 Fiber and 6 Coax |
| 3 | 1 Fiber | 6 Coax |
| | 1 Coax | 1 Fiber |


| Mode | Inputs | Outputs |
|------|---------|--------------------------------|
| 4 | 1 Fiber | 4 Coax (#3, #4, #5, #6) |
| | 1 Coax | 1 Fiber and 2 Coax (#1, #2) |
| 5 | 1 Fiber | 1 Fiber and 2 Coax (#5, #6) |
| | 1 Coax | 4 Coax (#1, #2, #3, #4) |
| 6 | 1 Fiber | 1 Fiber |
| | 1 Coax | 6 Coax |

To select a mode:


- 1) Connect power to the VMDA.
- 2) Push mode button 5 seconds until mode light blinks.
- 3) Click mode button until chosen mode number light blinks and release. 1 = 1, 2 = 2, 3 = 3, 4 = 1+3, 5 = 2+3, 6 = 1+2+3

Notes: Upon momentary mode button clicks, lit arrows show signal flow.
On board memory retains mode selection when power is off.

VMDA Ordering Information

|  Part Number | Optical Transmit Power (dBm) | | | Optical Input Power (dBm) | | Link Distance |
|--|------------------------------|---------------------------|---------|---------------------------|---------|------------------------|
| | Minimum | Typical | Maximum | Minimum | Maximum | Minimum |
| VMDA-P-2-6-Z (1310nm FP TX/PIN RX) | -6 | -3.5 | -1 | 3G: -20 HD: -20 | -3 | 3G: 10 km HD: 20 km |
| VMDA-P-2-6-ZW (1310nm FP TX/PIN RX) Web enabled control port. | -6 | -3.5 | -1 | 3G: -20 HD: -20 | -3 | 3G: 10 km HD: 20 km |
| Contact factory for lead time for other 1310nm DFB and 1550nm DFB TX and CWDM wavelength TX combinations. | | | | | | |
| VMDA-P-2-6-Z (1310nm FP TX/PIN RX), VMDA-P-2M-6-Z (1310nm DFB TX/PIN RX), VMDA-P-3-6-Z (1550nm DFB TX/PIN RX), VMDA-P-3-XX-6-Z* (CWDM DFB TX/PIN RX). | | | | | | |
| *User specified wavelength nm. Specify -XX 2-digit code: 27=1270, 29=1290, 31=1310, 33=1330, 35=1350, 37=1370, 39=1390, 41=1410, 43=1430, 45=1450, 47=1470, 49=1490, 51=1510, 53=1530, 55=1550, 57=1570, 59=1590, 61=1610 nm | | | | | | |
| Shipping Dimensions | | 16.25 x 11.25 x 4.25 inch | | 41 x 29 x 11 cm | | |
| Shipping Weight | | 2.7 lb | | 1.2 kg | | |

Wall Plug Power Supply Ordering Information (Sold Separately.)

|  Part Number | Input Voltage | Output Voltage | Output Current | Connector Type | Power Supply Plug Type |
|--|---------------|-------------------------|----------------|------------------|---|
| PS-12-2H-XLR | 110V to 240V | 12VDC | 2.5A | 4-Pin XLR Female | Interchangeable wall plugs for Australia, China, Europe, UK and US. |
| Shipping Dimensions | | 16.25 x 11.25 x 4.25 in | | 41 x 29 x 11 cm | |
| Shipping Weight | | 1.6 lb | | 726 g | |

Advanced Fiber Products, LLC (AFP-US) develops and manufactures active optical devices engineered and packaged to withstand the rigors of broadcast production and many industrial environments. The devices are designed to convert signals from electrical to optical domain, aggregate, multiplex and de-multiplex them and provide transmission via ruggedized cabling solutions. AFP also offers a wide range of ancillary components in addition to specialized fiber assemblies related to high performance optical hermeticity, laser-to-fiber or fiber-to-detector delivery and integration into complete packaging solutions. AFP-US located near Chicago, Illinois, USA is a wholly owned subsidiary of Advanced Fiber Products Ltd. (AFP). The company is headquartered at Haverhill, near Cambridge in the United Kingdom.

Advanced Fiber Products LLC
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Des Plaines, IL, USA 60018
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