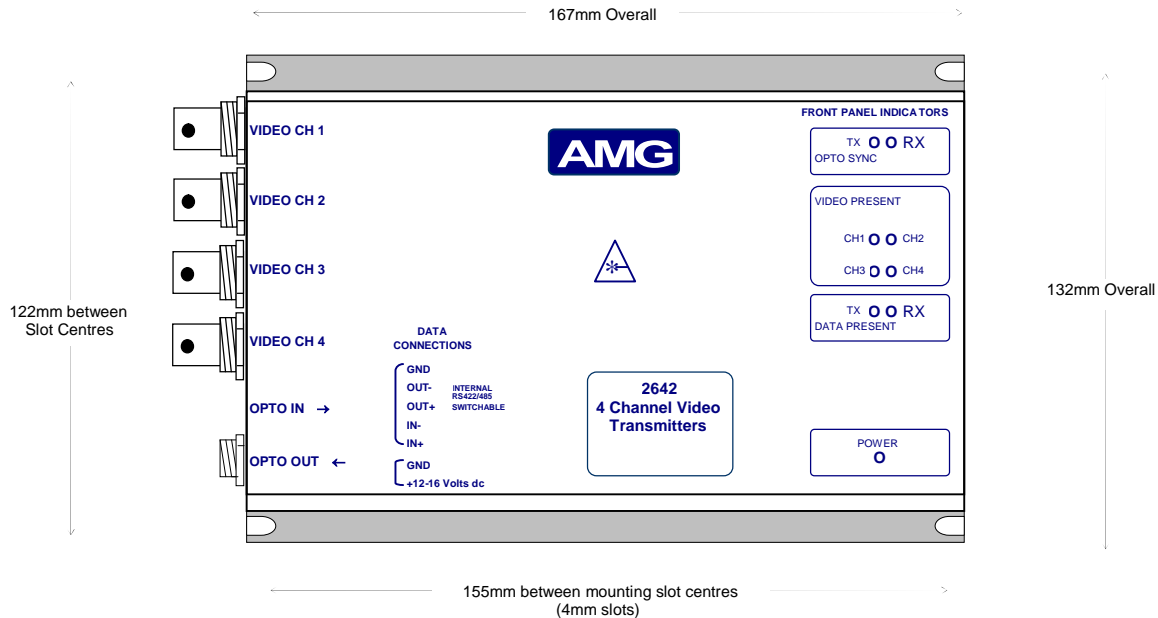




AMG2642 Instruction Manual

Four Channel Video RX Unit



AMG2642 is a four channel video only receive unit designed to receive four video signals on one multimode fibre. The **AMG2642** is designed It is designed to be powered from an **AMG2002** power supply.

The **AMG2642** is designed to operate with **AMG2641** four channel video only transmit unit.

Connections

Video Output Connections

No of Channels 4
 Connectors 75 ohm BNC Socket.
 Output Impedance 75 ohm terminated.
 Output Level 1 volt p-p nominal
 Frequency Response 10Hz to 5.75MHz min.

Optical Connections

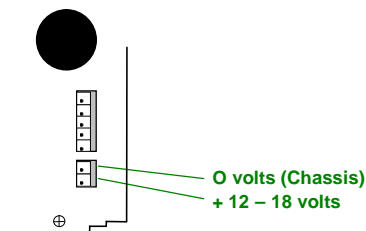
OPTO IN
 Connector ST
 Optical Receive Power 0 to -22dBm
 Wavelength 1310nm

Note: - The transmission distance on multimode fibre will tend to be limited by the bandwidth of the fibre rather than the optical dynamic range. It is recommended that 50/125 optical fibre is used as this will have a higher bandwidth than 62.5/125 fibre. The **AMG2641** and **AMG2642** will transmit and receive over a minimum of 1km of 50/125 fibre and will typically transmit and receive over 2km of 50/125.

Power Connection

Connectorremovable screw terminal connector (3.5mm spacing)
Manufacturers Part No. Phoenix/Combicom MC1-5/2-ST-3.5
AMG Part No.G00047-00
Power requirement12 volts to 16 volt DC @ 750mA (1
amp turn on current)

Connections..... See schematic
+12 – 16 Volts on lower pin
0 Volts on upper pin



Indicators

Power	Green	– unit powered
	Off	– no power applied to unit
Opto Sync TX	Green	- Optical channel transmitting
	Off	- Optical channel not transmitting
Opto Sync RX	Not used	
Video Present	Green	– video signal present on video the channel indicated.

Physical Information

Dimensions

Height 109mm
Width..... 218mm
Depth 70mm
Weight..... 500grams

Mounting Details

The unit is designed to be mounted into a panel via the two mounting slots of 4.5mm x 10mm.

Safety

The 2600 series of products uses a Class 1 laser system in accordance with EN 60825-2:2000.

It is always advisable to follow good practice when working with optical fibre systems. This includes:

- Do not stare with unprotected eyes or with any unapproved collimating device at fibre ends or connector faces, or point them at other people.
- Use only approved filtered or attenuating viewing aids

For other safety issues and advice on good practice associated with the optical fibres systems see EN 60825-2:2000 or your local safety officer.

Maintenance and Repair

There are no user serviceable parts within the AMG2600 products.

In case of problem or failure contact your local support centre or AMG Systems Ltd, Technical Support Department on tel. +44 (0) 1767 600777.

See unit data sheet for full specification.