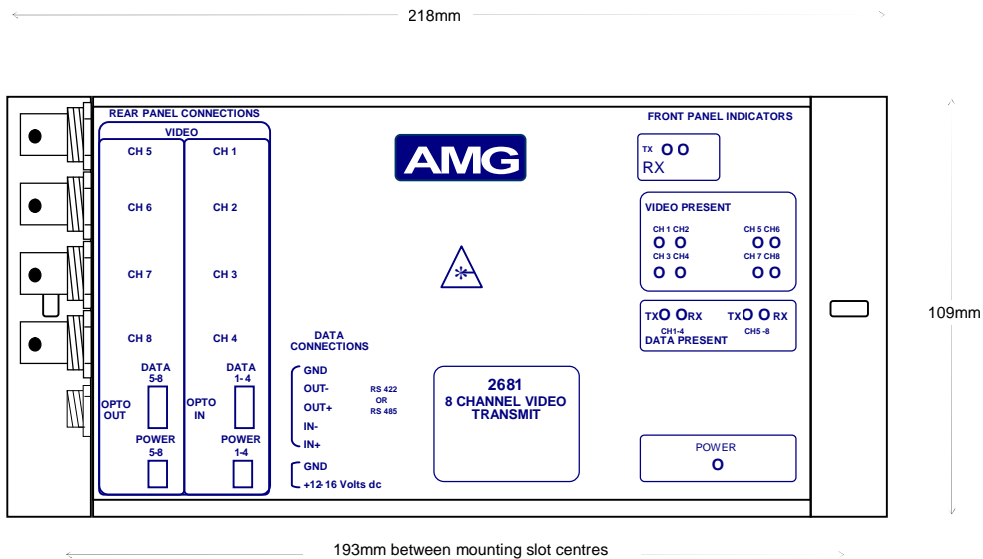




AMG2681 Instruction Manual

Eight Channel Video Only Transmit Unit



The **AMG2681** is a standalone eight channel video transmit unit designed to transmit eight video signals on a single multimode fibre. It is designed to be powered from an **AMG2002** power supply.

The **AMG2681** is designed to operate with the **AMG2682R** eight channel video receivers.

Connections

Video Input Connection

Connector 8 off 75 ohm BNC Socket.
 Input Impedance 75 ohm terminated.
 Input Level 1 volt p-p nominal
 Frequency Response 10Hz to 5.75MHz min.

Optical Connections

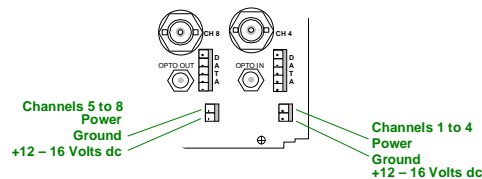
OPTO OUT
 Connector ST
 Optical Launch Power -5dBm
 Wavelength 1310nm

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 **AMG2681** and **AMG2682R** will transmit and receive over a minimum of 1km of 62.5/125 fibre and will typically transmit and receive over 2km of 50/125. The transmission distance will typically be longer than this but will depend of the performance of the optical fibre.

Power Connection

Connector2off removable screw terminal connectors (3.5mm spacing)
 Manufacturers Part No. Phoenix/Combicom MC1-5/2-ST-3.5
 AMG Part No.G00047-00
 Power requirement 12 volts to 16 volt DC @
 1500mA (2 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 | Green | - optical channel receiving |
| | Off | - optical channel not receiving |
| Video Present CH1 to CH8..... | Green | – video signal present on video CH1 input BNC |
| | Off | – no video present on video CH1 input BNC |

Physical Information

Dimensions

Height 109mm
 Width..... 218mm
 Depth 120mm
 Weight..... 1100grams

Mounting Details

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

Safety

The 2700 series of products uses a Class 1 laser system in accordance with EN 60825-2:2000.

However 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

There are no user serviceable parts within the AMG2700 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.