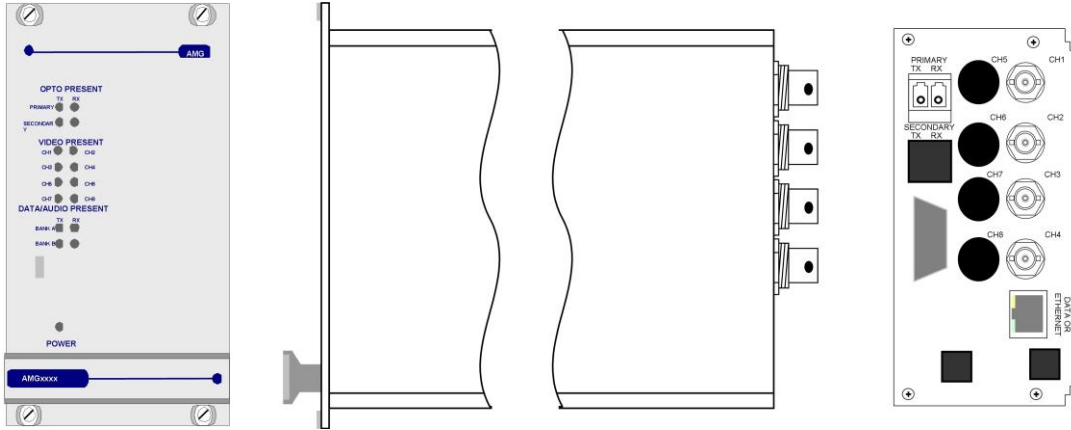




AMG4742R-C Instruction Manual

Four Channel Video Receive Unit operating at 1550nm wavelength with Integral WDM coupler



The **AMG4742R-C** is a standalone four channel video receive unit designed to receive four video signals from an **AMG4741-C**, or **AMG4741R-C**, 4 channel transmitter. It requires one single mode optical fibre for the transmission of the video. It incorporates a 1550nm/1310nm wavelength division multiplexer. This allows the user to combine a signal from a unit transmitting at 1310nm wavelength onto the same fibre. The 1310nm signal can be in the same or in a different direction to the 1550nm signal.

The **AMG4742R-C** is designed to plug into an **AMG2000** or an **AMG2005** subrack which in turn fits into a 19" rack system.

Connections

Video Input Connections

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

Optical Connections

PRIMARY OPTO IN

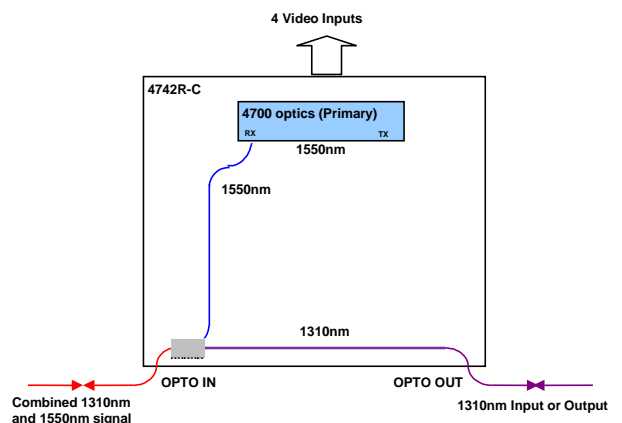
This take the 1550nm signal to this unit together with a 1310nm signal from or to an additional 1310nm unit.

Connector	LC/PC
Primary Optical Sensitivity	-22dBm
Wavelength.....	1550nm
Optical Fibre	Single mode

PRIMARY OPTO OUT

1310nm signal input or output

Connector	LC/PC
Optical Fibre	Single mode



Power Connection

Power supply from plug in connection on the 2000 or 2005 subrack
Power consumption 8 Watts max.

Indicators

Power.....	Green	-	unit powered
	Off	-	no power applied to unit
Primary Opto Sync TX.....	Not Used	-	optical channel transmitting
	Not Used	-	optical channel not transmitting
Primary Opto Sync RX	Green	-	optical channel receiving
	Org	-	optical channel receiving but not sync.
	Off	-	optical channel not transmitting
Video Present CH1-4.....	Green	-	video signal present on output BNC
	Org	-	channel present but no video on O/P BNC
	Off	-	no video channel present
Data Present TX.....	Not Used		
Data Present RX.....	Not Used		

Physical Information

Dimensions

Height3U Plug-in
Width..... 14HP
Depth 172mm excluding connectors
Weight..... 1000 grams

Mounting Details

The unit is designed to be mounted within an **AMG2005** Subrack on standard card guides. Note the **AMG2005** Subrack is supplied with guide rails every 14HP. In order to fit this unit in the subrack it may be necessary to move some card guides by pulling gently on the card guides.

Safety

The 4700 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 AMG4700 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.