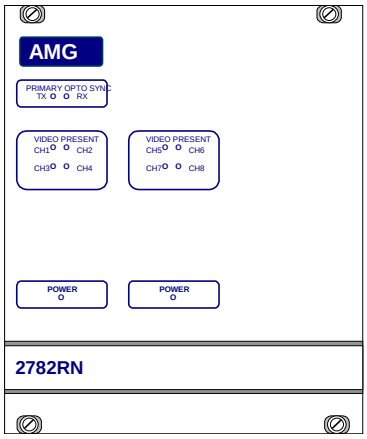
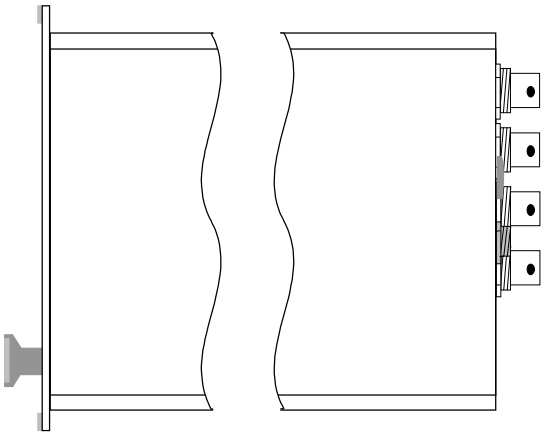
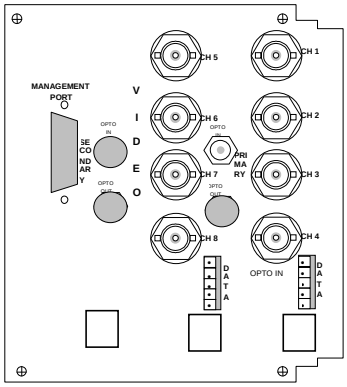
AMG2782RN
Instruction Manual

Eight Channel Video RX







The **AMG2782RN** is an eight channel video only receive unit designed to receive eight video signals from one singlemode fibre. The **AMG2782RN** is designed to operate with an **AMG2781R** or several **AMG2781-x** insert units. It plugs into and is powered from an **AMG2005** subrack which in turn fits into a 19" rack system. The 'N' signifies the addition of a management card which will operate with the AMG2700 Network Manager software.

Connections

Video Output Connections

No of Channels 8
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

PRIMARY OPTO IN
Connector ..... FC/PC
Optical Sensitivity ..... -22dBm
Wavelength 1310nm

Power Connection

Power supply ..... from plug in connection on the 2000 or 2005 subrack
Power consumption ..... 20 Watts max.

Indicators

Video Present CH1-8	Green	–	video signal present on video output BNC
	Red/Green	-	Channel present , no video
	Off	–	No channel Present thus no video present on video channel input BNC
Opto Sync RX	Green	-	optical channel receiving
	Off	-	optical channel not receiving
Opto Sync TX	Green	-	not used

Physical Information

Dimensions

Height ..... 3U Plug-in
Width..... 21HP
Depth ..... 170mm excluding connectors
Weight..... 1100grams

The Management Card

The AMG2700 Management card is fitted within AMG2782RN, AMG2784RN and AMG2788RN receivers and is signified by a 'N' in the part number

Each management card, thus each receiver, has an ID number with is identified below the management port. This ID number is used by the AMG Network Management System (NMS) to identify the unit.

The physical interface is a 9 way female D-type connector.

Management Port Pinout

Pin Number	RS232 Connection	RS485 Connection
1	-	Data +
2	RD (data out of port)	-
3	TD (data into port)	-
4	-	Data -
5	SG (signal ground)	SG (signals Ground)
6	N/C	N/C
7	N/C	N/C
8	N/C	N/C
9	N/C	N/C

For multiple Management Ports it is recommended that the RS485 interface is used with each RS485 pair connected in parallel. In this case a RS485 to RS232 converter is required in order to connect to a normal PC Comm Port.

The time delay between receiving a data request and sending out a response from the port is 625us. Therefore any RS232 or RS485 converter should have a 'turn around' time or 'transmit dwell' time equal to or less than 625us.

Mounting Details

The unit is designed to be mounted within a 2000 or 2005 Subrack on standard card guides. Note the AMG standard racks are supplied with guide rails every 7HP. In order to fit this unit in the subrack, 2 sets of card guides have to be removed by pulling gently on the card guides.

The 2000 series subrack is fitted with a 50 watt power supply. A maximum of 2 units may be fitted into one 2000 series subrack.

The 2005 series subrack is fitted with a 100 watt power supply. A maximum of 3 units may be fitted into one 2005 series subrack limited by the 70HP rack space.

Safety

The 2700 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 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.