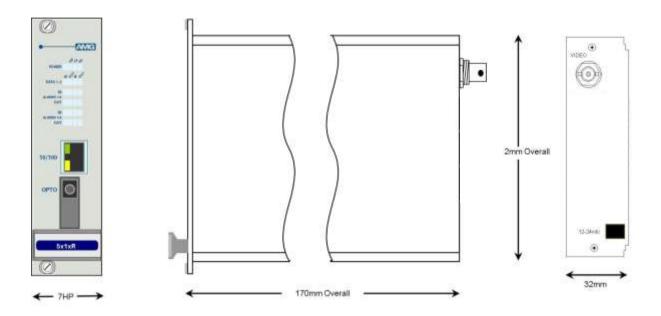


AMG5912R Instruction Manual

Single Channel Video Receive Unit with Ethernet for a Singlemode Fibre Link



The AMG5912R is a rackmount one channel video receive unit designed to receive 1 video signal and also provides full duplex 100Base-T Ethernet connectivity over one Singlemode optical fibre.

The **AMG5912R** is designed to plug into an **AMG2009** or **AMG2015** subrack, which in turn fits into a 19" rack system.

The AMG5912R is designed to operate with an AMG5911 or AMG5911R video transmit unit in a point to point configuration. The R suffix in the partno. indicates a rackmount configuration.

Contents

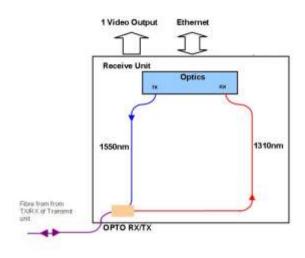
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Introduction

Unit Functional Schematic

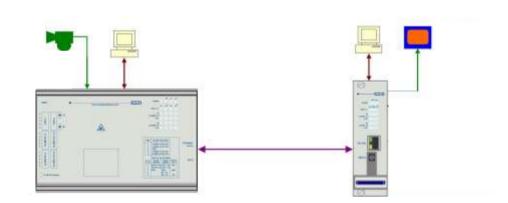
The AMG5912R receives 1 video from the AMG5911 transmit unit.

Ethernet connectivity is also provided between the two units.



Optical Connection

The AMG5912R connections are illustrated in the following example which shows an AMG5911 single channel transmit unit together with a AMG5912R configured as a point to point system.



Ethernet Operation

The Ethernet interface supports 100Mbit/s full duplex operation only. Data is transmitted from one port the other port with minimum delay or buffering.

The port implements "Auto MDI/MDIX" i.e. it may be connected with either a straight-though or crossover cable to an appropriate device such as external switch, PC or other DCE/DTE.

Two LED indicators are provided adjacent to the RJ-45 port: Green indicates Link / Data transfer and Yellow indicates no Ethernet connection.

Connections

Video Output Connection

Connector	75 ohm BNC Socket.
Output Impedance	75 ohm terminated.
Output Level	1 Volt p-p nominal
Frequency Response	10Hz to 7MHz.

Optical Connection Singlemode

Optical Fibre	
Primary Optical Launch Power Transmit Wavelength	
Primary Optical Sensitivity Receive Wavelength	

Minimum Optical Dynamic Range20dB.

Power Connection

Power supplyFrom plug in connection on the AMG2009 or AMG2015 subrack Power consumption2.5 Watts max.

Ethernet Connection

Ethernet Data Connector	.RJ45
Interface	.Auto-negotiation up to 100BASE-TX full duplex
Ethernet Data Rate	.Maximum 100Mb/s total Ethernet traffic on fibre

Front Panel Indicators

Power LED

POWER......Green - Power is present
Off - Power is not present

VIDEOGreen - Video output signal is present
Off - Video input signal is not present

OPTO TX......Green - Tx opto. present
Off - Tx opto. is not present

OPTO RX Green - Rx opto. sync.
Off - Rx opto. is not sync.

Ethernet Data LEDs

Link IntegrityGreen - Link integrity is good, Idle state

GBlink - Data transfer
Off - Link not present

Physical Information

Dimensions

Height	.3U Plug-in
Width	•
Depth	.170mm excluding connectors
Weight	•

Mounting Details

The unit is designed to be mounted within an AMG2009 or AMG2015 Subrack on standard card guides.

Safety

AMG Optical Fibre Products use Class 1 laser systems 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 optical fibre systems, please see EN 60825-2:2000 or your local safety officer.

Maintenance and Repair

There are no user serviceable parts within AMG products. See unit data sheet for full specification.

In case of problem or failure, please call your local support centre or contact: **AMG Systems Ltd.** at 3 The Omega Centre, Stratton Business Park, Biggleswade, Beds., SG18 8QB, UK.

Phone +44 (0) 1767 600 777 Technical Support +44 (0) 1767 604 491

Email techsupport@amgsystems.com

