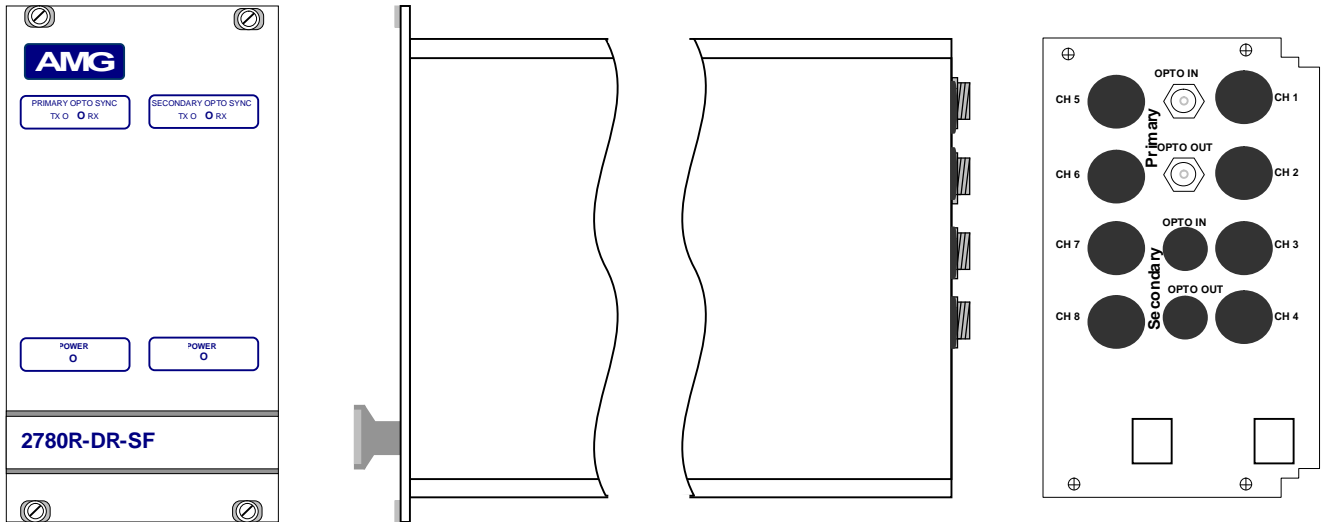




# AMG2780R-DR-SF Instruction Manual

## 2700 Series Repeater for use on a Dual Redundant single fibre ring



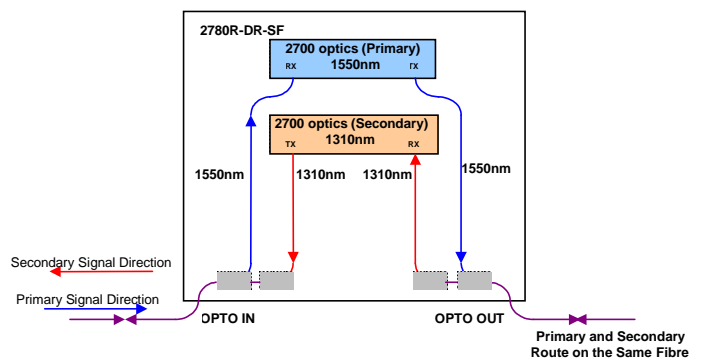
The **AMG2780R-DR-SF** is a rackmount repeater designed to operate in a single fibre dual redundant loop. It is designed to plug into a standard **AMG2000** or **AMG2005** rackmount system.

### Functional Description

The **AMG2780R-DR-SF** receives an optical signal from both a primary and secondary optical input.

In normal operation where connection of both the previous unit and the subsequent unit are OK, the optical signal on both the primary and secondary routes is regenerated on the respective optical outputs.

If the primary optical input signal is not present, the unit shut down the primary output. If the secondary optical input is not present the unit will shut down the secondary optical output.



## Connections

### Optical Connections

#### PRIMARY OPTO OUT

Connector .....FC/PC  
Primary Optical Launch Power .....-6dBm  
Wavelength ..... 1550nm

Secondary Optical Sensitivity ..... -21dBm  
Wavelength ..... 1310nm

#### PRIMARY OPTO IN

Connector .....FC/PC  
Primary Optical Sensitivity ..... -21dBm  
Wavelength ..... 1550nm

Secondary Optical Launch Power ..... -6dBm  
Wavelength ..... 1310nm

### Power Connection

Power supply ..... from plug in connection on the 2000 or 2005 subrack  
Power consumption ..... 10 Watts max.

### Indicators

Power.....	Green	- unit powered
	Off	- no power applied to unit
Primary Opto Sync TX.....	Green	- Primary optical channel transmitting
	Off	- Primary optical channel not transmitting
Primary Opto Sync RX.....	Green	- Primary optical channel receiving
	Off	- Primary optical channel not receiving
Secondary Opto Sync TX.....	Green	- Secondary optical channel transmitting
	Off	- Secondary optical channel not transmitting
Secondary Opto Sync RX.....	Green	- Secondary optical channel receiving
	Off	- Secondary optical channel not receiving

### Physical Information

#### Dimensions

Height ..... 3U Plug-in  
Width..... 14HP  
Depth ..... 170mm excluding connectors  
Weight..... 750grams

#### 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, 1 set 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.  
The 2005 series subrack is fitted with a 100 watt power supply

## **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.