

- Simple optical multiplexing of up to 4 separate applications
- Voice, data, telemetry and CCTV can all be supported
- Any port can operate at any speed up to 10G
- Simple fibre plumbing to converge complex applications
- Long distance CWDM SFPs available
- Unpowered passive devices for highest possible reliability



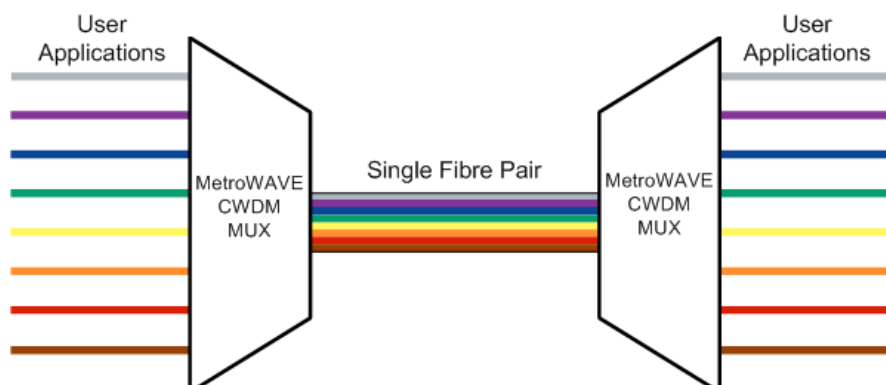
MetroWAVE-4A

The MetroWAVE product range offers a series of passive CWDM optical multiplexing functions. CWDM multiplexing is a technique whereby different wavelengths of light are multiplexed together and transported over a singlemode fibre pair, then demultiplexed at the far end back into their original wavelengths.

The MetroWAVE product range performs these CWDM multiplexing and demultiplexing functions passively, i.e. directly optically without using any optical-electrical-optical conversions or repeater functions. This is now the most economic approach to CWDM multiplexing due to the widespread availability of cost effective long range vendor compatible CWDM SFPs. The unpowered, fixed mechanical nature of these MetroWAVE products offers greater robustness and higher levels of reliability than active devices offering similar functionality.

The MetroWAVE-4A operates in the upper CWDM band (1550nm-1610nm) and can be used as a standalone CWDM multiplexer or to expand the capabilities of the MetroWAVE-5 from supporting 5 to supporting 9 applications.

Whilst the MetroWAVE product range is compatible with user exchangeable SFPs (and most other industry standard fibre transceivers), it is recommended that these are purchased from Metrodata for use in Metrodata fibre equipment to guarantee their specification and compatibility with each other.



### Specifications

Optical Specification				
Parameter	Values			
	Min	Typical	Max	
Operating Wavelength	1460nm		1620nm	
Operating Centre Wavelength	1551/1571/1591/1611nm			
Channel Number	4(1551~1611nm)			
Passband Bandwidth	$\lambda_c \pm 6.5\text{nm}$			
Insertion Loss	Mux (TX)		1.4dB	1.7dB
	Demux (RX)		1.4dB	1.7dB
	Mux & Demux Link		2.0dB	2.5dB
PDL			0.2dB	
Directivity	50dB			
Return Loss	50dB			
Environment		Dimensions (W x L x H) mm		
Storage Temp	-40 to 85 deg C	MetroWAVE-rack	482 x 170 x 44	
Operating Temp	-5 to 75 deg C	MetroWAVE-4A	142 x 170 x 39	
Humidity	95% RH, non-condensing	Power Supply		
Pressure	86 - 106 kPa	Power Consumption	Unpowered	
Compliance & Approvals				
Safety	EN60950			
EMC	EN55022, EN50082			

### Order Codes

Product	Part Number
MetroWAVE-4A	80-32-003
MetroWAVE-rack	80-32-051

For more data on Metrodata products, visit our website at [www.metrodata.co.uk](http://www.metrodata.co.uk)  
 Metrodata reserves the right to change specifications without notice.  
 Please check when ordering.