

## GP-MUX-8 | Forward/8-Channel GEPON Multiplexer



The QAMnet GP-MUX-8 series Multiplexer is designed specifically for integrating GEPON transceivers with forward path optical signal in HFC networks. Housed inside a 1u rack-mount frame, GP-MUX-8 combines / multiplexes 8 independent GEPON (1310nm/1490nm) channels with a common 1550nm forward-path optical input.

Utilizing state of art DWDM filter technology, GP-MUX-8 provides proven performance of low insertion loss, high isolation and broad bandwidth operation. It features a single input for 1550nm analog/HDTV/QAM-based digital channels. The forward 1550nm input is split internally into 8 ways and then combined with 8 separate channels of GEPON input.

## **Features**

- Low insertion loss
- High isolation of 30dB
- 8 channel of multiplexer in single unit
- Broad operating wavelength range
- Operating temperature range -10°C to +65°C

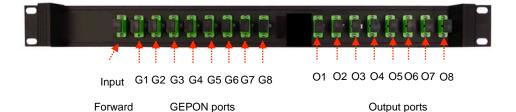
1310/1490nm

## **Ordering Information**

Forward

1550nm

GP-MUX-8-x



Output ports 1310/1490/1550nm

Suite 200L

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Technical Specifications	
1550nm Forward Path Input Port	1 (Input)
Forward Path Input Wavelength Range	1550nm ± 20nm
GEPON Input Port	8 (G1 to G8 port)
GEPON Path Input Wavelength Range	1310nm ± 20nm, 1490nm ± 10nm
Multiplex Output Port	8 (O1 to O8 port)
Combined Output Wavelength Range for Forward and GEPON	1550nm ± 20nm, 1310nm ± 20nm, 1490nm ± 10nm
Insertion Loss	
Insertion Loss (Input to O1, thru O8)	10.8dB Typical, 11.5dB Maximum
Insertion Loss (G1 to O1, G2 to O2)	1.3dB Typical, 1.8dB Maximum
Isolation	
Isolation of 1550nm Forward Path to GEPON	17dB Minimum, 20dB Typical
Isolation GEPON to 1550nm Forward Path	30dB Minimum, 35dB typical
Polarization Dependent Loss	0.1dB Maximum
Return Loss	50dB Minimum
Power Handling	200mW Minimum
Environment / Mechanical Specifica	itions
Operating Temperature Range	-10°C to +65°C
Storage Temperature Range	-40°C to +85°C
Dimensions	13.75" (L) x 19" (W) x 1.75" (H)

Fiber Type

Connector Type

SMF28,  $9/125\mu m$ 

SC/APC Connectors on all ports





## QAMnet

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