

Forward/8-Channel GEAPON Multiplexer

The QAMnet GP-MUX-8 series Multiplexer is designed specifically for integrating GEAPON transceivers with forward path optical signal in HFC networks.

GP-MUX-8 Forward/8-Channel GEAPON Multiplexer



Product Description

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

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

Features

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

Applications

✓ HFC ✓ FTTH ✓ RFoG ✓ Deep Fiber Applications

PRODUCT SPECIFICATIONS

Optical Specifications

1550nm Forward Path Input Port	1 (Input)
Forward Path Input Wavelength Range	1 Input / 3 Output
GEAPON Input Port	8 (G1 to G8 port)
GEAPON Path Input Wavelength Range	1310 nm \pm 20 nm, 1490 nm \pm 10 nm
Multiplex Output Port	8 (O1 to O8 port)
Combined Output Wavelength Range for Forward and GEAPON	1550 nm \pm 20 nm, 1310 nm \pm 20 nm, 1490 nm \pm 10 nm
Insertion Loss	
Insertion Loss (Input to O1, thru O8)	10.8 dB typ., 11.5 dB max.
Insertion Loss (G1 to O1, G2 to O2...)	1.3 dB typ., 1.8 dB max.
Isolation	
Isolation of 1550nm Forward Path to GEAPON	17dB Minimum, 20dB Typical
Isolation GEAPON to 1550nm Forward Path	30dB Minimum, 35dB typical
Polarization Dependent Loss	0.1dB Maximum
Return Loss	50 dB min.
Power Handling	200 mW min.

Mechanical Specifications

Operating Temperature Range	-10°C to +65°C
Storage Temperature Range	-40°C to +85°C
Device Dimensions	13.75" (L) x 19" (W) x 1.75" (H)
Fiber Type	SMF28, 9/125 μ m
Connector Type	SC/APC Connectors on all ports

Ordering Information

GP-MUX-8-x

x d (unpackaged device), m (module)