

Ultra-Low Latency Optical Router (2x16) (<1.8ns)

Product Description

Agiltron all optical routers achieve ultra-low latency that has not been attainable by electronic routers. The 1U system multicasts incoming optical signals and dynamically re-directs them into multiple output ports with build-in optical MEMS switches. These switches are controlled via computer-GUI with a USB port and a web-GUI with an Ethernet port. The fiber output ports are located in the front panel.



Performance Specifications

All Optical Router 2x16	Min	Typical	Max	Unit
Operating Wavelength	1310/1550 ± 50			nm
Insertion Loss ^[1]				15
	amplify			6
Latency ^[2]				1.5
	amplify			1.8
Return Loss	45			dB
Cross Talk	55			dB
PDL	0.05			dB
Switching Time	10			ms
Switch Durability	10 ⁸			Cycle
Operating Temperature	0	70		°C
Storage Temperature	-40	85		°C
Electronic Ports	RJ45, USB			
Working Power	DC: 12~48V; AC: 100~240V (50/60 Hz)			
Fiber Type	SMF-28 or equivalent			
Fiber Connector	LC			

[1]. Excluding connectors.

[2]. Fiber length delay out from the front panel

Features

- Ultra-low latency
- Dynamic switching
- Low optical loss
- Build-in signal booster

Applications

- Algorithmic trading
- Defense systems
- Communication networks
- Data storage

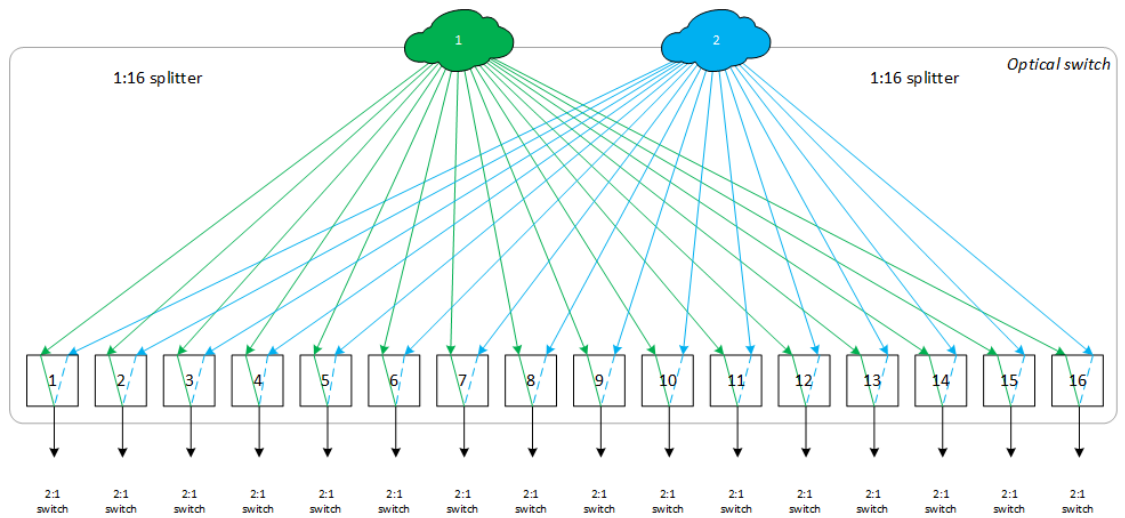
Optical Line Protection Switch

Mechanical Dimensions (Unit: mm)

1RU 19" mount rack. The input and output connectors and the control interface are on the front panel, while power inputs are on the rear panel.

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Optical Diagram



Ordering Information

AOR -	Output	Input	Wavelength	Amplifier	Fiber	Power Supply	Connector
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	12=12 16 =16 18 =18 32 =32	1=1 2=2 3=3 4=4	1310=3 1550=5 1310/1550=9 Special=0	Yes=1 No=0	SM28=1	12V DC=1 48V DC =2 100~240V AC =3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Duplex LC=8 Special=0