

The integrated 1U rack mount double 48-channel AWG system with mux and de-mux launched by Sintai Communication Co., Ltd. can improve communication capacity, expand bandwidth and solve the shortage of fiber resources effectively based on the existing network.

### Product Features

- 1U 19-inch standard rack
- Dimension of the equipment: 44 mm (h) x 442 mm (w) x 220 mm (d)
- support double 48 DWDM channels C band
- Adopt the modular design
- Rapid service deployment without changing the original network structure
- Support transparent transmission without affecting the carrying service

### Product Overview

With the ever growing shortage of fiber resources, it's difficult for operators to install cables, and the prices of leasing cables are high for industry clients. In the network construction, improving utilization of the existing fiber cable is the most urgent technology for the clients. The integrated 1U rack mount double 48-channel AWG system with mux and de-mux launched by Sintai Communication Co., Ltd. can improve communication capacity, expand bandwidth and solve the shortage of fiber resources effectively based on the existing network, which provide clients with an expansion solution of the optical fiber transmission with low cost and high performance. One device can realize dual-fiber transmission of 48 channels' independent service

### Technical parameter

Item	Unit	Parameter	
		Gauss	Flat top
ITU	GHz	$\pm 12.5$	
Channel Spacing	nm	0.8nm(100GHz)	
Channel Number		Double 48	
Wavelength accuracy	nm	$\leq 0.05$	
Channel Insertion Loss	dB	$\leq 5.0$	$\leq 5.5$
-1dB Bandwidth	nm	$\leq 0.2$	$\leq 0.34$
-3dB Bandwidth	nm	$\leq 0.4$	$\leq 0.51$
Adjacent Channel Isolation	dB	$\geq 25$	
Non-Adjacent Channel Isolation	dB	$\geq 30$	
Total isolation	dB	$\geq 22$	$\geq 23$
Channel Ripple	dB	$\leq 1.5$	
Return Loss	dB	$\geq 45$	
Directivity	dB	$\geq 50$	
PDL	dB	$\leq 0.5$	
PMD	ps	$\leq 0.5$	
Power Handling	mW	$\leq 300$	
Operating Temperature	°C	$-10 \sim +70$	
Storage Temperature	°C	$-40 \sim +85$	
Fiber Type	-	Corning SMF-28e Ultra	

Package Size	mm	Standard 1U 19" , 44(H)x442(W)x220(D)
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