#### **GPS Over Fiber**

For Timing and GPS Indoor Systems



#### 1164~1616 MHz **JTD-GOF101RO+GOF101LO**

The GOF is powered by 12V DC power supply to guarantee the stable operation of the system. The antenna interface connects to outdoor GPS antenna. The satellite signals received by Remote unit, the remote unit converts GPS signals into optical signals, Transmission through optical fibers, the local unit converts optical signal into GPS(RF) signals, and offer GPS signals to the RF output ports, the output ports connect to GPS receivers (BBU) or repeater antenna(for re-radiation). The gain is up to 40dB.

Optical fiber interface (round FC-APC interface) is used as the interface of transmitting signal remotely between remote unit and local unit via optical fibers.

This product can achieve outdoor waterproof grade: IP65;And can be equipped with a temperature control module, when the temperature is lower than or higher than the working temperature, the temperature control device will start, the equipment temperature control within the normal operating temperature range.

## **Key features**

- Designed for 5G Timing and indoor signal forwarding applications;
- Frequency range:1164~1616MHz;
- Gain: Fixed gain of 40dB;
- Optical fiber long-distance signal transmission;
- Operation Environment: meet IP65;
- Temperature control module inside (Optional);
- > 12V DC power supply





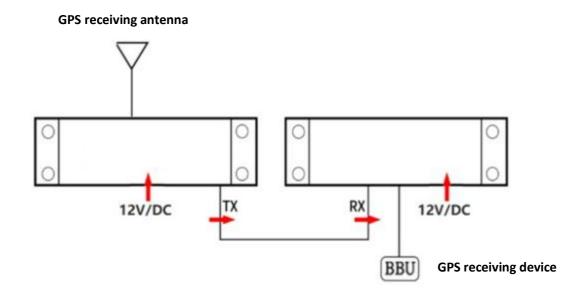
## **Specifications**

#### **Technical characteristics**

Parameter		Specification	Min.	Nomi nal	Max	Unit
Frequency range		Remote unit antenna	1164		1616	MHz
I/O impedance		Input, all output ports		50		Ω
Gain	4 0 d B		38		41	dB
Input voltage standing wave					2.0:1	-
Output voltage standing wave					1.5:1	-
Noise factor					4	dB
Pass band ripple		Antenna - unused port - 50Ω load			3	dB
Maximum output power		Antenna - unused port - 50Ω load	-30			dBm
DC input		DC 12V		12		VDC
Current		12V			30	mA
Optical wavelength		Sending (Remote unit)	1310		nm	
Optical wavelength		Receiving (Local unit)	1310		nm	
Optical output power		25°C Sending (Remote unit)		8		dBm
Optical receive power		25°C Receiving (Local unit)	-30			dBm
Light delay				5		ns
Optical fiber transmission		Sending (Remote unit)	60			Km
Operation Environment				IP65		
Working temperature		Normal	-20	25	65	°C
Working temperature		temperature control inside	-45	25	65	°C
Storage temperature			-30	25	80	°C

# **Applications**

To expand GPS signal coverage or fill signal blind area where signal is weak or unavailable.



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