

GDS-6800 (47~862MHz & 950~6000MHz)

4-Band SAT-TV & CATV Direct Modulated Optical Transmitter

PRODUCT DESCRIPTION

GDS-6800 series micro-wave Direct Modulated Optical Transmitter, the working broadband is 47~862MHz & 950~6000MHz. By internal frequency overlay, can transmit 4 SAT-IF, 4 roads sat TV signals and CATV signal of 47~862MHz with high quality by one fiber.

It can supply high quality of satellite live TV service that come from maximum 4 satellites & CATV service for many users by FTTH, FTTB.

GDS-6800 working wavelength is optional 1310nm or 1550nm. Choose 1550nm working wavelength can use EDFA & EYDFA to realize large area coverage. It is compatible with any FTTH, XGS PON technology. Realize multi-way satellite TV, internet integration of three networks.

SAT-IF input signal of GDS-6800 can come from 4 different satellites, and also can come from one satellite' s 4 SAT-IF signal. If adopt one satellite' s 4 SAT-IF, can adopt Quattro LNB 4 SAI-IF output tuner, such as our LNB2204.

GDS-6800 adopts high linearity broadband and microwave direct Modulated DFB laser. Excellent laser APC, ATC control, perfect RS232 interface. High performance, high flexibility, high reliability and excellent performance price ratio. It is the ideal choice for subscribers.



PRODUCT FEATURES

- ▶ 950~6800 MHz RF working bandwidth
- ▶ Transmit CATV signal& 4SAT-IF overlay signal by one fiber at same time
- ▶ 4 SAT-IF input interfaces, all can supply power to LNB, all with +18V or+13V power switching, can realize the choice of horizontal and vertical polarization
- ▶ 4 SAT-IF input interfaces, the 2 interfaces are High Band(22KHz), another 2 interfaces are Low Band(0Hz)
- ▶ High linear broadband micro-wave (microwave) direct modulated DFB Laser
- ▶ Telecommunication-grade security and reliability and network management
- ▶ Excellent performance price ratio in this area

MAIN APPLICATION

- ▶ FTTH, FTTB(CATV & 4 SAT-TV)
- ▶ Triple-play(CATV, 4SAT-TV & Intranet)

TECHNICAL INDEX

Performance				Min.	Typ.	Max.	Supplement
Optical Feature	Operating wavelength		nm	1310		1550	Optional
	Output power		(dBm)	0/2/4/6/8/10			Optional
	Reflection loss		(dB)	≥50			
	Connector			SC/APC			
RF Feature	RF input bandwidth	HH	(MHz)	1100		2150	
		VH	(MHz)	1100		2150	
		HL	(MHz)	950		1950	
		VL	(MHz)	950		1950	
		CATV	(MHz)	47		860	
	Input impedance		(Ω)	75			
	NO. of input ports			5			
	RF connector			F-Female			
	Flatness in band		(dB)	≤±3			
	Flatness in 30MHz		(dB)	≤1			
	Return loss		(dB)	10			
	SAT frequency band gain		(dB)	15			
	CATV frequency band loss		(dB)	≤3			
	OIP3		(dBm)	10			
	Physical stray		(dBc)	≥20			
	Non-physical stray output level		(dBm)	≤-60			
	Input level min.		(dBm)	≥-45			
	Input level max.		(dBm)	≤-25			
General Feature	Power supply		(V)	DC+18V			
	Operating temp.		(℃)	-20		+55	
	Storage temp.		(℃)	-40		85	
	Relative humidity		(%)	5		95	
	Size		(mm)	208×204×35			