

GDS-6804 (47~862MHz & 950~6000MHz)

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

PRODUCT DESCRIPTION

GDS-6804 series micro-wave Direct Modulated Optical Transmitter, the working broadband is 47~862MHz & 950~6000MHz. By internal frequency overlay, can transmit 4SAT-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-6804 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 FTTx



PON technology. Realize multi-way satellite TV, CATV TV and internet integration of three networks.

GDS-6804 can choose 1550nm ITU-T standard wavelength to realize DWDM system application, can transmit 8SAT-TV, 12SAT-TV or 16SAT-T by one fiber.

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

GDS-6804 adopts high linearity broadband and microwave direct Modulated DFB laser. Excellent laser APC, ATC control, perfect SNMP, RS232 interface. High performance, high flexibility, high reliability and excellent performance price ratio. It is the ideal choice for subscribers.

PRODUCT FEATURES

- ▶47~862MHz & 950~6000MHz RF working bandwidth
- ▶ Transmit CATV signal & 4SAT-IF overlay signal by one fiber at same time
- ▶ 1550nm Can use EDFA,YEDFA, can compatible with any FTTx PON
- ▶ 1550nm can select ITU-T standard wavelength, suitable for DWDM systems applications
- ▶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
- ▶ Laser APC.ATC
- ▶ Telecommunication-grade security and reliability and network management



- ▶ SNMP support remote management and control
- ▶ Excellent performance price ratio in this area

MAIN APPLICATION

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

TECHNICAL INDEX

	Por	formance			Index	Supplement			
	rei	ioimance		Min.	Тур.	Max.	Guppiernent		
				1300	1310	1320	13		
	Working wow	olongth	(12.122)	1547		1563	CR		
	Working wavelength		(nm)	1528		1543	СВ		
				1528.77		1563.86	XX (ITU standard wavelength)		
	Laser type			DFB					
Opti	Laser grade			1M					
Optical feature	Side mode suppression ratio		(dB)	35	45				
ature	Equivalent noise intensity		(dB/Hz)	155					
	Output optica	utput optical power		2		10			
	SBS		(dBm)	18			1550nm, 25KM Fiber		
	Return loss		(dB)	40	45		FC/PC, SC/PC		
				55	60		FC/APC, SC/APC		
	Optical fiber connector			SC/APC			Optional FC/APC, SC/PC, FC/PC		
	Frequency IF input	VL	- (MHz)	950		1950			
		VH		1100		2150			
		HL		950		1950			
Fre		НН		1100		2150			
Frequency feature	4 SAT-IF superposition working frequency range		(MHz)	950		6000			
ture	In-band gain flatness		(dB)	-2.0		+2.0			
	40MHz gain flatness		(dB)	-0.5		+0.5			
	IM2		(dB)	40			2 tone measurement,		
	IM3		(dB)	40			OMI=20% per carrier		



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	Input leve	ı		(dBm)	-60		-22	
	Input impedance		(Ω)		75			
	RF return loss			(dB)	8			
	RF connector type				F-Female			
	The number of SAT-IF input					4		
	Frequency Workig		CATV	(MHz)	47		862	Digital or Analog TV
		у	DAB		213		854	
			DTT	(IVIFIZ)	470		854	
			FM	1	88		108	
	Input level			(dBmV)	15		28	
	Flatness			(dB)	-1		+1	47~862MHz
	Return loss			(dB)	14			
	Input impedance					75		
	Connector type			F-Female				
		Test ch	Test channel		PAD-D/60CH			
		CNR		(dB)	51			-1dBm receiver
	Link	СТВ	1310nm	(dB)			-65	
	feature		1550nm	(dB)			-63	
		cso	1310nm	(dB)			-60	
			1550nm	(dB)			-57	
	SNMP interface				RJ45			
	Communication interface				RS232			
	Power		AC	0.0	90	220	265	
Gene	supply		DC	(V)	-30	-48	-72	
General feature	Power consume		(W)			25		
aturo	Work temp.			(℃)	-5		+65	
	Storage temp.			(℃)	-40		+85	
	Work relative humidity			(%)	5		95	
	Size			(")	19 ×14.5×1.75			(W) x(D)x(H)



MODEL EXPLANATION

