

HRS-26A (47~862MHz & 950~2600MHz)

Satellite TV & Analog TV PIN optical receiver

PRODUCT DESCRIPTION

Guangtai HRS-26A optical receiver, adopting high-sensitivity PIN detector, Taking the technology of frequency division multiplexing, it can receive analogue CATV and SAT-IF signal with the frequency of 47~862MHz and 950~2600 Mhz over single fiber. It can be compatible with any FTTx PON to realize triple-play of analog TV, Digital TV (DBS-C, DBS-T), Satellite TV, Internet and FTTH.

HRS-26A-H2-00-108: adopting 1U 19" standard casing, the working parameters of the unit are controlled by micro-processor. LCD on the front panel can display the working status and failure and diagnosis. Standard RS232



communication interface, SNMP function. Suitable for project application.

HRS-26A-H2-WD-108: 1U 19" standard casing, Suitable for FTTx PON. Build-in WD1543, un-seamed connection with ONU in EPON, GPON system.

HRS-26A-H2-00-208: B-type Desktop, easy to connect with multi-switch to STB.

HRS-26A-H2-WD-208: B-type Desktop, Suitable for FTTx PON. Build-in WD1543, un-seamed connection with ONU in EPON, GPON system.

HRS-26A-H2-00-308: C-type Desktop, easy to connect with multi-switch to STB.

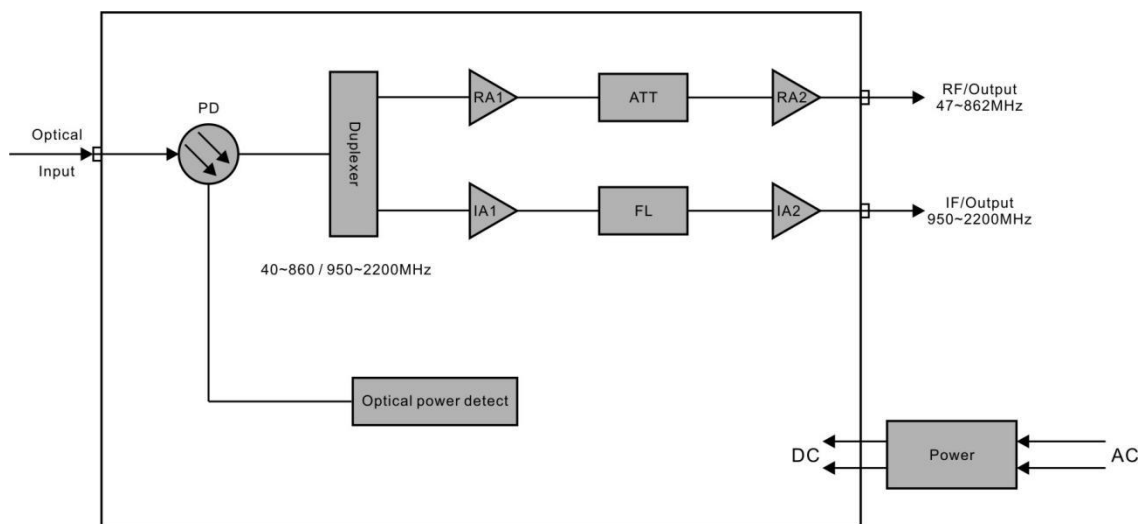
HRS-26A-H2-WD-308: C-type Desktop, Suitable for FTTx PON. Build-in WD1543, un-seamed connection with ONU in EPON, GPON system.

PRODUCT FEATURES

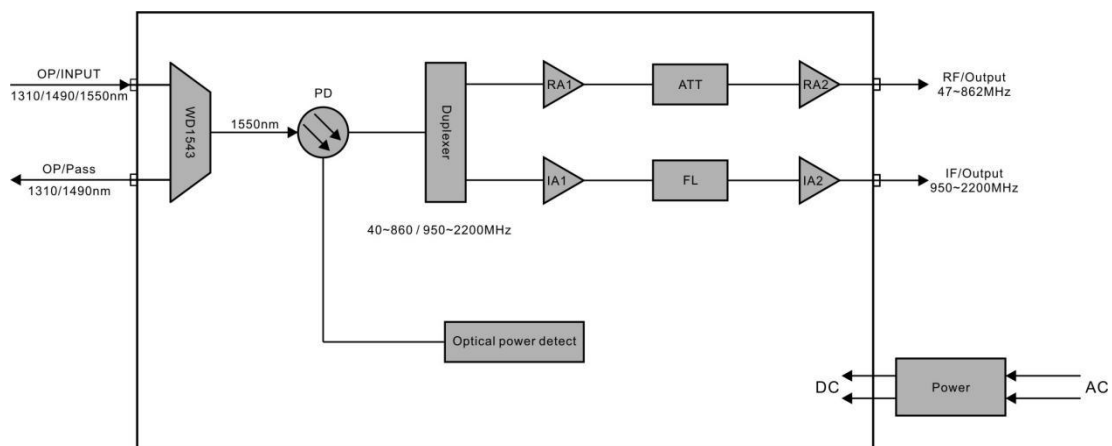
- ▶ High linearity, suitable for Analog CATV & SAT-IF application.
- ▶ Wide band: 47~862MHz & 950~2600MHz Respectively output by two RF output port .
- ▶ It can receive analogue CATV and SAT-IF signal over single fiber.
- ▶ It can be compatible with any FTTx PON.
- ▶ Excellent P/P ratio.

CIRCUIT DIAGRAM OF OPTICAL RECEIVER

HRS-26A-H2-00-□ 08



HRS-26A-H2-00-□ 08



TECHNICAL INDEX

Performance			Index			Supplement		
			Min.	Typ.	Max.			
Optical feature	Operating wavelength	(nm)	1260		1620	HRS-26A-H2-00-xxx		
			1540		1563	HRS-26A-H2-WD-xxx		
	Pass wavelength		(nm)	1310/1490/1550			HRS-26A-H2-WD-xxx	
	Responsivity	R13	(A/W)	0.9			1310nm	
		R15		0.95			1550nm	
	Receiving optical power	Typical	(dB)	-8		+2		
		Sensitivity				-13	Pr	
		Overload		+5			Po	
	Return loss		(dB)	50				
Optical connector			SC/APC			Option LC/APC		
RF feature	Operating bandwidth		(MHz)	47		862		
	Output level		(dBmV)	10		30		
	Flatness		(dB)	-0.75		+0.75		
	Return loss		(dB)	16			47~862MHz	
	Output impedance		(Ω)		75		47~862MHz	
	RF connector			F-female				
	Channel loading			PAL-D/60CH				
	CNR	1310nm	(dB)	51				
		1550nm		50				
	CTB	1310nm	(dB)	-65				
		1550nm		-63				
	CSO	1310nm	(dB)	-63				
		1550nm		-53				
	IF feature	Operating bandwidth		(MHz)	950	2200	2600	
Output level		(dBmV)	-40		+24			
Flatness		(dB)	-0.5		+0.5	40MHz		
			-2		+2	950~2600MHz		
Return loss			(dB)	12			950~2600MHz	
Output impedance			(Ω)		75		Option 50Ω	
IF connector				F-female				
IM3			(dB)	-65				
HUM			(dB)	-60				
General feature	SNMP			RJ45			HRS-26A-H2-XX-108	
	Communication interface			RS232			HRS-26A-H2-XX-108	
	Power supply	AC	(V)	90	220	265	HRS-26A-H2-XX-108	
		DC			5		HRS-26A-H2-XX-208\308	

	Power consume	(W)			10	Single PS
	Operating temp.	(°C)	-5		+65	
	Storage temp.	(°C)	-40		+85	
	Relative humidity	(%)	5		59	
Size(W)×(D)×(H)		(")	19×14.5×1.75			HRS-26A-108
		(mm)	88×50×22			HRS-26A-208
			59.5×98×24			HRS-26A-308

PRODUCT SERIES

Model	Receiving sensitivity	Exterior structure	CWDM
HRS-26A-H2-00-108	PIN	19" 1RU	None
HRS-26A-H2-WD-108	PIN	19" 1RU	Build-in WD1543
HRS-26A-H2-00-208	PIN	B-type, Desktop	None
HRS-26A-H2-WD-208	PIN	B-type, Desktop	Build-in WD1543
HRS-26A-H2-00-308	PIN	C-type, Desktop	None
HRS-26A-H2-WD-308	PIN	C-type, Desktop	Build-in WD1543

MODEL EXPLANATION

HRS - 26A - H 2 / □□ - □ □□ - □□ - □□

Product type		Operating bandwidth		Applicable network		RF output port feature		WDM		Product feature		Reception sensitivity		Connector		Power supply	
HRS	Satellite Direct Modulated Optical Transmitter	26A	47~862MHz & 950~2600MHz Analog TV + SAT-IF	H	High performance apply to FTTH	2	1□:47~862MHz 1□:950~2600MHz	00	Without WDM	1	19" standered type	08	-8dBm	SA	SC/APC	48	-48VDC
								WD	With WDM	2	B-type, Desktop	13	-13dBm	FA	FC/APC	22	220VAC
				B	High output level apply to FTTB					3	C-type, Desktop			LA	LC/APC	11	110VAC