

HDS-26S-6CW (950~2600 MHz)

CWDM 6CH SAT-IF Direct Modulated Optical Transmitter

PRODUCT DESCRIPTION

The Guangtai HDS-26S-6CW optical transmitter allows for the transport of six wideband RF satellite channels (950~2600 MHz) along with EPON/GPON on one single fiber. Guangtai transmitters employ a series of high grade, replaceable DFB lasers and a specialized internal CWDM to allow for the input of any standard EPON/GPON switch into the SC/APC input of the unit. LEDs indicate the RF input signal is within the proper threshold. The optical transmitter has the capability to support up to 32 Guangtai HDS-26S-6CW optical receivers. A typical F port style coaxial connection is used to connect the external power supply allowing for flexible powering options and reducing overall operating temperature of the unit.



PRODUCT FEATURE

- ▶ Six wideband RF inputs for multi satellite applications
- ▶ SC/APC optical input to integrate services from EPON/GPON headend appliance
- ▶ Single SC/APC output delivers all services via one single mode fiber
- ▶ Completely passive optical insertion port allows for uninterrupted broadband services regardless of RF failure or power failure
- ▶ F-port style power connections allows for flexibility in deployment
- ▶ Lasers and associated electronics are mounted in replaceable modules to keep operating costs to a minimum
- ▶ 6 (950-2600MHz) RF signal inputs. Modulating CWDM 1470-1610 nm DFB lasers
- ▶ Stand alone housing with mounting holes
- ▶ Laser optical output power: 4dBm
- ▶ DC block to all RF inputs

SPECIFICATIONS

	Performance	Unit	Index	Supplement
RF Specifications	Frequency Range	MHz	950~2600	
	Impedance	dBm	75	
	RF Input Level	dBm	-45 ~ -25	
	Flatness	dBm	±2.0	
	CNR	dBm	≥45	
	CSO	dBm	≥56	
	CTB	dBm	≥60	
	IMD	dBm	≥50	
	Input Return Loss	nm	≤-8	
	Total OMI(Optical Modulation Index)		20%	
Optical Specifications	Wavelength Range	nm	1270~1610	
	Data Optical Wavelength Pass Through	nm	1490, 1550, 1310	
	Data Optical Insertion Loss @ 1490, 1550 And 1310 nm	dBm	1.5	Normal
			2	Maximum
	Laser Output Power	dBm	4	1470-1610nm
	Transmitter Optical Output Power Per Wavelength	dBm	3	1470-1610nm
	Center Wavelength @25°C	nm	λ0±3	Relative to CWDM DFB, ITU-T G.694.2 IC: 1470,1510, 1530, 1570, 1590, 1610
	Wavelength Stability	nm	±6.5	Relative to CWDM DFB, operating temperature range from 0°C to 45°C
	Optical Output Return Loss	dBm	≤-45	
Power Supply	DC Power Input		F-type	
	Supply Voltage (Current	V	6-18	
	Maximum Power Consumption	W	30	
Environment	Operating Temperature Range	°C	-10 ~ +55	
	Storage Temperature Range	°C	-45 ~ +85	
	Maximum Relative Humidity		≤95 %	No Condensation
Housing	Number Of RF Output Port(s)		6	F-type
	Number Of Fiber Input Port(s)		1	SC/APC
	Number of Fiber Output Port(s)		1	SC/APC
	Power Supply Port(s)	VDC	6~18	
	Dimension L x W x H	mm	245 x 180 x 60	
	Power Supply Indicator		Green LED - on	Single Color LED
	Optical Power Indicator		Low-Red,	3 Single Color LED
			Normal-Green	
			High-Red	
	RF Input Alarm Indicator		Low - On	Single Color LED
			Normal - Off	
			High - Blinking	