

GWT3500S CATV+SAT Fiber Optic Transmitter

GWT3500S is a direct modulation 1550nm DFB transmitter for 45~806MHz analog TV or digital TV and satellite 950~2150MHz signal fiber dense distribution. The transmitter utilizes high linearity DFB laser, RF power digital automatic process technique, along with RF pre-distortion circuit developed by Greatway Technology. The built-in microprocessor monitors the transmitter working status and automatically ensures the optimistic performance. GWT3500S is ideal for analog TV and satellite TV distribution within 20Km fiber.



Features

- Low noise high linearity DFB laser
- Independent CATV RF input and Satellite RF input
- Reverse 13V or 18V DC power to LNB on request
- Support up to 32 transponders on the satellite 950~2150MHz RF
- Support up to 80ch NTSC analog TV or QAM on the 45~806MHz RF
- Low noise RF amplifiers
- RF level to DFB laser optimized for the best C/N and distortion
- Excellent pre-distortion technology on the CATV RF
- Built-in microprocessor accurately monitors laser output power and temperature.
- Front panel VFD displays the status parameters and function message

Specifications

Item	Parameter
Input RF connector	Two: one CATV RF, one Satellite RF
CATV RF Bandwidth	45~806MHz
CATV RF Input Level	15~25dBmV
Sat RF Bandwidth	950~2150MHz
Sat RF Input level	-50~-20dBm
Reverse DC to LNB	13V or 18V@300mA
RF Input Impedance	75 Ohm
RF Return Loss	>10dB
CATV AGC Control Range	0~15dB
CATV MGC Control Range	0~15dB

CATV C/CTB	≥60dB
CATV C/CSO	≥56dB
CATV C/N	≥44dB
QAM TV MER	≥34dB
Satellite UB CNR	≥10dB
Optical Power	>7mW
Output Optical Wavelength	1545~1560nm
Type of Laser	DFB laser with one-stage isolator
Optical modulation mode	Direct Modulation
Optical connector Type	SC/APC
Power Voltage	AC 100V~240V (50/60 Hz)
Power Consumption	15W
Operation Temperature	0~50C
Store Temperature	-40~85C
Relative Humidity	Max 95% no condensation
Dimension	483 (L) × 381 (W) × 44 (H)
Weight	5

Test condition: Input 80 channels NTSC signal and 10QAM channels (QAM RF Level 6dB lower) to the optical transmitter CATV RF port and input 10 transponders on the SAT RF port, measure GFH2000-K standard optical receiver C/CTB, C/CSO and C/N in conditions of -6dBm optical input (10km fiber + optical attenuator) and 10~15dBmV RF output.

Ordering Information:

GWT3500S-AB-CD CATV+SAT Fiber Optic Transmitter

AB: 13_reverse 13V DC to LNB, 18_reverse_18V DC to LNB

CD: Optical connector, FC_FC/APC, SC_SC/APC