

## GWT3300 Series 1310nm DFB Transmitter

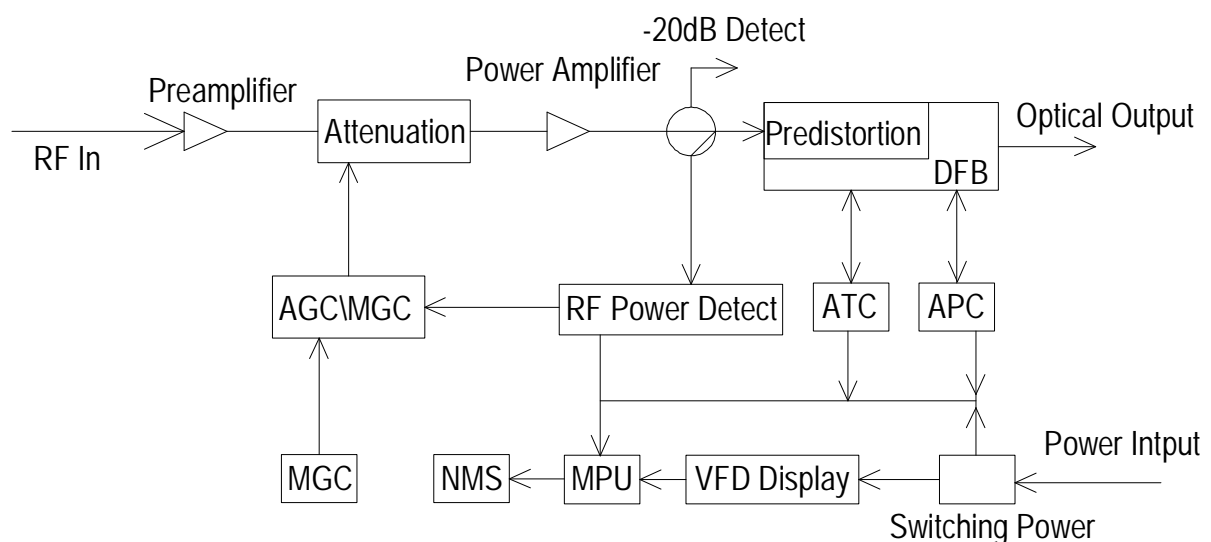


GWT3300 series 1310nm transmitter is primarily used for TV video signal, digital TV signal, telephone voice signal and data signal long-distance fiber transmission. The transmitter utilizes high linearity DFB laser, RF power digital automatic process technique, along with RF pre-distortion circuit developed by Greatway Technology. The built-in microprocessor monitors the transmitter working status and automatically insures the optimistic performance. All materials applied in GWT3300 optical transmitter meet RoHS requirement.

### Features

- l Low noise high linearity Ortel-Emcore cooled DFB laser
- l GaAs Technology up to 1000MHz (typical 862MHz)
- l RF power digital automatic process technology control the laser driving RF power level automatically according to RF signal level and channels, ensuring the best C/N, CTB and CSO
- l Excellent pre-distortion technology improves CTB, CSO and C/N
- l Built-in microprocessor accurately monitor laser output power and temperature.
- l Front panel VFD displays the status parameters and function message
- l 19" 1U standard rack with RS485 and RS232 ports for remote monitor and control
- l SNMP network management optional
- l RoHS compatible

### Block Diagram



## Specifications

Item	Unit	Parameter								
		4	6	8	10	12	14	16	18	20
Optical Power	mW	4	6	8	10	12	14	16	18	20
Optical Link Path Loss	dB	7	9	10	11	11.8	12.5	13	13.6	14
Optical Wavelength	nm	1310±20								
Type of Laser		14pin cooled DFB laser in butterfly package with isolator								
Optical modulation mode		Direct Modulation								
Optical connector Type		SC/APC or FC/APC								
Frequency Range	MHz	47~862 (1000MHz Optional)								
RF Input Level	dBmV	15~25								
Flatness In Band	dB	±0.75								
RF Input Impedance	Ω	75								
Input Reflection Loss	dB	≥16 (47~862/1000)MHz								
C/CTB	dB	≥67								
C/CSO	dB	≥62								
C/N	dB	≥51								
AGC Control Range	dB	±5								
MGC Control Range	dB	±5								
Power Voltage	V	AC 100V~240V (50/60 Hz)								
Power Consumption	W	15								
Operation Temperature	°C	0~50								
Store Temperature	°C	-40~85								
Relative Humidity	%	Max 95% no condensation								
Dimension	mm	483 (L) × 381 (W) × 44 (H)								
Weight	Kg	5								

**Test condition:** Input 59 channels PAL-D signal to the optical transmitter and measure the standard optical receiver C/CTB, C/CSO and C/N in conditions of -1dBm optical input (10km fiber + optical attenuator) and 36 dBmV RF output.

## Ordering Information:

GWT3300-AB-CD-EF-G Forward Path Transmitter

AB: Optical output power in mW, 04/06/08/10/12/14/16/18/20

CD: Optical connector, FC for FC/APC, SC for SC/APC

EF: None for 862MHz, 1000 for 1GHz bandwidth

G: None for RS-232 interface, N for SNMP interface