



## DW-OT53DM

### 1550/1310nm Direct modulation optical transmitter (AGC, dual module)



#### Overview

DW-OT53DM is a practical, high index, multifunctional and short distance transmission product. It is the construction of CATV HFC network equipment. This machine adopts the high linearity, low chirp DFB laser as light source, RF drive part adopts advanced pre-distortion compensation and closed loop AGC, APC, ATC control, to ensure that the excellent performance, and make the optical receiver output level is constant, various working parameters by the micro processing control, optional SNMP network management software and 1+1 power supply backup, chassis temperature can achieve the automatic control, can be applied to high-end users.

#### Features

- ◆ Imported double module RF driver.
- ◆ This machine is equipped with a microprocessor software, has a laser monitoring, digital display, alarm and other functions.
- ◆ The front panel of the high brightness LCD display, observe the machine parameters.
- ◆ Automatic laser modulation ( OMI ) control, AGC & MGC.
- ◆ Perfect RS232 communication interface.
- ◆ Advanced SNMP network management functions.
- ◆ Dual power supply main preparation.
- ◆ Automatic chassis temperature control, ensure the laser operating life.



**Parameter**

Performance		Index
Optical Port	Working wavelength (nm)	1530~1563 (Optional 1310nm±10)
	Side mode suppression ratio (dB)	≥45 (SMSR)
	Extinction ratio (dB)	≥20
	Noise equivalent intensity (dB/Hz)	≤-160
	1550nm Output power (dB)	2-10
	1310nm Output power (mw)	2-30
	1550nm Transmission (Km)	5~20 Optional
	Reflection loss (dB)	≥55
	Optical fiber connector	FC/APC ( Optional SC / APC)
RF Port	Working bandwidth (MHz)	47~862
	Input level (dBμV)	80±5 (AGC)
	Flatness (dB)	≤±0.75 (47~862MHz)
	Reflection loss (dB)	>16
	AGC Control range (dB)	±10
	MGC Control range (dB)	±10
	Input impedance (Ω)	75
Link	Test channel	PAL-D/60CH、NTSC/80CH
	Radio detection (dB)	0±1
	CNR (dB)	≥52 (-1dBm Receive)
	CTB (dB)	≤-67
	CSO (dB)	≤-62 (1550nm ≤-57)
General Features	Network management interface	RJ45(SNMP), RS232 Or RS485
	Power supply (V)	90~265VAC, Optional -48VDC (30~60VDC)
	Power waste (W)	≤50 (Single supply operation)
	Working temperature (°C)	-5~65
	Storage temperature (°C)	-40~85 (Automatic chassis temperature control)
	Relative humidity (%)	5~95
	Box size (")	19(W)×14.5(D)×1.75(H)