

## TX 1550nm 10mW CATV/MATV Intelligent Directly Modulated Optical Transmitter

### ACE-WT1550DM



#### Product Summary:

ACE-WT1550DM TX 1550nm 10mW CATV / MATV Intelligent Directly Modulated Optical Transmitter adopt advanced Electronic Dispersion Compensation technology, accurately compensate according to the actual transmission distance by 1km stepping. The maximum compensation distance is up to 50km and high isolation between two RF inputs.

#### Features & Benefits:

- Frequency range 47 ~ 870 MHz
- Rated input level 75 ~ 85 dB $\mu$ V
- OMI Control Range +/- 5 dB
- MGC adjustable range 0 ~ 20 dB
- Dispersion compensation distance 50 km
- Built-in WDM and VOA
- Operating temperature 0 ~ +45 $^{\circ}$ c
- Voltage AC 100V ~ 260V
- Power consumption  $\leq$  30W
- 19" 1U standard rack 483mm x 395mm x 44mm

#### Specifications:

Item	Unit	Technique Parameters
Output optical power	mW	10
Optical wavelength	nm	1550 $\pm$ 10 (have to be ITU wavelength when with inter-cut function)
Dispersion compensation distance	Km	$\leq$ 50
Laser type		DFB laser
Optical modulation mode		Direct optical intensity modulation
Optical connector type		FC/APC or SC/APC
Frequency range	MHz	47-862
RF input level	dB $\mu$ V	75-85
Flatness in band	dB	$\pm$ 0.75
RF input impedance	$\Omega$	75
Input return loss	dB	$\geq$ 16
C/CSO (25Km optical fiber, 0dB received)	dB	$\geq$ 60
C/CTB (25Km optical fiber, 0dB received)	dB	$\geq$ 65
C/N (25Km optical fiber, 0dB received)	dB	$\geq$ 51
AGC control range	dB	$\pm$ 5
MGC control range	dB	0-20
Supply voltage	V	AC 110V-250V (50Hz)
Consumption	W	30
Operating temperature	$^{\circ}$ C	0 -- 45
Storage temperature	$^{\circ}$ C	-20 -- +65
Relative humidity	%	Max 95% no condensation
Dimension	mm	483(L) $\times$ 380(W) $\times$ 44(H)

