

# 1310nm Direct Modulation Optical Transmitter • ONT-8600AG Series

## Technical Specification

# CONTENT

<b>1.0</b>	<b>PRODUCT DESCRIPTION.....</b>	<b>1</b>
<b>2.0</b>	<b>PRODUCT FEATURE.....</b>	<b>1</b>
<b>3.0</b>	<b>TECHNIQUE INDEX.....</b>	<b>2</b>
<b>4.0</b>	<b>PRODUCT SERIES.....</b>	<b>3</b>

## **1.0 PRODUCT DESCRIPTION**

1310nm direct modulation optical transmitter, adopts high linearity DFB laser of famous brand worldwide, build-in perfect pre-distortion adjustment circuit and laser APC, ATC closed loop control circuit. All the operating parameters are controlled by micro-processor, the LCD screen on the front panel can display relative operating status and the fault information.

ONT-8600AG Series direct modulation optical transmitter adds AGC on the base of ONT-8600AF reliable type.

## **2.0 PRODUCT FEATURE**

- Adopt world-band top-class American ORTEL or Japanese Fujitsu laser
- High efficiency laser pre-distortion adjustment, improve CSO $\leq$ 8dBm.
- Dual power supply inside backup. Full-automatically switch.
- Full-automatically control of casing temperature.
- Laser OMI, AGC/MGC option.

### 3.0 Technique index

Performance		Index	Supplement	
Optic feature	Wavelength	(nm)	1310±10	
	Output power	(mW)	4~24	
	Return loss	(dB)	≥55	
	Optical fiber connector		SC/APC	Optional FC/APC
RF feature	Work bandwidth	(MHz)	45-862	
	Input level	(dBmV)	15~25	AGC
	Flatness	(dB)	≤±0.75	45~862MHz
	Return loss	(dB)	>16	45~750MHz
	Input impedance	(Ω)	75	
	RF interface		F type	Optional imperial
Link feature	Transmit channel		PAL-D/60CH	
	CNR	(dB)	≥52	10Km optical fiber, 0dBm receive
	CTB	(dB)	≤-67	
	CSO	(dB)	≤-63	
General feature	Network interface port		RJ45, RS232	Support I.E. & SNMP
	Power supply	(V)	90~265VAC	-48VDC optional (30~60VDC)
	Power Consume	(W)	≤50	Single power works
	Work temp.	(°C)	-5~65	Machine temp. control automatically
	Storage temp.	(°C)	-40~85	
	Relative humidity	(%)	5~95	
	Size	(")	19×10×1.75	(W)x(D)x(H)

## 4.0 PRODUCT SERIES

Model	Power (mW)	Bandwidth (MHz)	Technical index (59 channel PAL-D) (dB)			
			Link Loss	CNR2	CTB	CSO
ONT-8604AG	≥4	47~860	7	≥52	≤-67	≤-63
ONT-8606AG	≥6	47~860	9	≥52	≤-67	≤-63
ONT-8608AG	≥8	47~860	10	≥52	≤-67	≤-63
ONT-8610AG	≥10	47~860	11	≥52	≤-67	≤-63
ONT-8612AG	≥12	47~860	12	≥52	≤-67	≤-63
ONT-8614AG	≥14	47~860	12.5	≥52	≤-67	≤-63
ONT-8616AG	≥16	47~860	13	≥52	≤-67	≤-63
ONT-8618AG	≥18	47~860	13.5	≥52	≤-67	≤-63
ONT-8620AG	≥20	47~860	14	≥52	≤-67	≤-63
ONT-8622AG	≥22	47~860	14.5	≥52	≤-67	≤-63
ONT-8624AG	≥24	47~860	15	≥52	≤-67	≤-63