

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

## Technical Specification

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## **1.0 PRODUCT DESCRIPTION**

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

ONT-8600AR has all the technical characteristic and function of ONT-8600AS. For its rainproof structure, it can be installed outside and its power supply is 220VAC or 60VAC optional.

## **2.0 PRODUCT FEATURE**

- The laser adopts the product produced by American Ortel or Japan Fujitsu
- All filter have pre-dispersion circuit correction inside can improve  $CSO \leq 8\text{dB}$
- Waterproof type structure, can use for out-door installation, supply power is 220VAC or 60VAC

### 3.0 Technique index

Performance		Index	Supplement	
Optic feature	Laser wavelength ( $\lambda$ )	(nm)	1310 $\pm$ 10	
	Output power	(mW)	4~24	
	Return loss	(dB)	$\geq$ 60	
	Optical fiber connector		FC/APC	SC/APC
RF feature	Work bandwidth	(MHz)	45-862	
	Input level	(dBmV)	20 $\pm$ 2	AGC
	Flatness	(dB)	$\leq \pm 0.75$	45~862MHz
	Return loss	(dB)	>16	45~750MHz
	Input impedance	( $\Omega$ )	75	
	RF interface		F type	Optional imperial
Link feature	Transmit channel		PAL-D/60CH	NTSC/80ch
	CNR	(dB)	$\geq$ 52	10Km optical fiber, 0dBm receive
	CTB	(dB)	$\leq -67$	
	CSO	(dB)	$\leq -63$	
General feature	Network interface port		RJ45, RS232	Support I.E. & SNMP
	Power supply	(V)	90~265VAC	-48VDC optional (30~60VDC)
	Power Consume	(W)	$\leq$ 50	Single power works
	Work temp.	( $^{\circ}$ C)	-5~65	Machine temp. control automatically
	Storage temp.	( $^{\circ}$ C)	-40~85	
	Relative humidity	(%)	5~95	
	Size	(")	12.5 $\times$ 9.6 $\times$ 5	(W) $\times$ (D) $\times$ (H)

## 4.0 PRODUCT SERIES

Model	Power (mW)	Bandwidth (MHz)	Technical index (59 channel PAL-D) (dB)			
			Link Loss	CNR2	CTB	CSO
ONT-8602AR	≥2	47~860	5	≥52	≤-67	≤-63
ONT-8604AR	≥4	47~860	7	≥52	≤-67	≤-63
ONT-8606AR	≥6	47~860	9	≥52	≤-67	≤-63
ONT-8608AR	≥8	47~860	11	≥52	≤-67	≤-63
ONT-8610AR	≥10	47~860	11.5	≥52	≤-67	≤-63
ONT-8612AR	≥12	47~860	12	≥52	≤-67	≤-63
ONT-8614AR	≥14	47~860	12.5	≥52	≤-67	≤-63
ONT-8616AR	≥16	47~860	13	≥52	≤-67	≤-63
ONT-8618AR	≥18	47~860	13.5	≥52	≤-67	≤-63
ONT-8620AR	≥20	47~860	14	≥52	≤-67	≤-63
ONT-8622AR	≥22	47~860	14.5	≥52	≤-67	≤-63
ONT-8624AR	≥24	47~860	15	≥52	≤-67	≤-63

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