

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

## Technical Specification

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## **1.0 PRODUCT DESCRIPTION**

1310nm direct modulation fiber 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 of fiber optical transmitter are controlled by microprocessor, and the LCD screen on the front panel can display relative operating status and the fault information.

ONT-8600AS is a universal 1310nm fiber optical transmitter.

## **2.0 PRODUCT FEATURE**

- The laser adopts the product produced by American Ortel or Japan Fujitsu.
- All types of ONT-8600AS series fiber optical transmitter are built-in high efficiency laser pre-distortion adjustment circuit, which can improve CSO $\geq$ 8dB

### 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)	20±2	
	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	NTSC/80CH
	CNR	(dB)	≥52	10Km optical fiber, 0dBm receive
	CTB	(dB)	≤-67	
	CSO	(dB)	≤-63	
General feature	Network management interface		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)	59 route PAL-D system index (dB)			
			Link Loss	CNR2	CTB	CSO
ONT-8602AS	≥2	47~860	5	≥52	≤-67	≤-63
ONT-8604AS	≥4	47~860	7	≥52	≤-67	≤-63
ONT-8606AS	≥6	47~860	9	≥52	≤-67	≤-63
ONT-8608AS	≥8	47~860	10	≥52	≤-67	≤-63
ONT-8610AS	≥10	47~860	11	≥52	≤-67	≤-63
ONT-8612AS	≥12	47~860	12	≥52	≤-67	≤-63
ONT-8614AS	≥14	47~860	12.5	≥52	≤-67	≤-63
ONT-8616AS	≥16	47~860	13	≥52	≤-67	≤-63
ONT-8618AS	≥18	47~860	13.5	≥52	≤-67	≤-63
ONT-8620AS	≥20	47~860	14	≥52	≤-67	≤-63
ONT-8622AS	≥22	47~860	14.5	≥52	≤-67	≤-63
ONT-8624AS	≥24	47~860	15	≥52	≤-67	≤-63