

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

## Technical Specification

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## **1.0 PRODUCT DESCRIPTION**

Compared with ONT-8600AS, ONT-8600AF has two power supplies and fans as backup to increase its reliability. It is suitable for the areas that have instable voltage, heavy thunder and high temperature.

## **2.0 PRODUCT FEATURE**

- Dual power supply backup, switch automatically. Can work with single power supply.
- When casing temperature  $\geq 45^{\circ}\text{C}$ , two fans at the back panel will open automatically to make compulsive cooling.

When casing temperature  $\leq 35^{\circ}\text{C}$ , the fans will stop automatically to ensure its life-span.

### 3.0 Technique index

Performance		Index	Supplement	
Optic feature	Laser wavelength( $\Delta\lambda$ )	(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	
	Flatness	(dB)	$\leq \pm 0.75$	45~862MHz
	Input Level	(dBmV)	20 $\pm$ 2	
	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 management interface		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	(")	19 $\times$ 14.2 $\times$ 1.75	(W) $\times$ (D) $\times$ (H)

## 4.0 PRODUCT SERIES

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