

CATV Outdoor Transmitter 1310nm

LCT3DMO is a 1310nm direct modulation optical transmitter- built for outdoor environment. With high linearity DFB laser built-in perfect pre-distortion adjustment circuit and laser APC, ATC closed loop control circuit. All the operating parameters are controlled by microprocessor, its relative operating status and the fault information can be displayed in the LCD screen on front panel. With its rainproof structure, it can be installed outside and its power supply is 220VAC or 60VAC optional.



FEATURES

- 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
- Dual Module RF drive, high efficiency laser pre-distortion adjustment.
- Full-automatically optical Modulation Intensity (OMI) control, MGC.
- Input range is $78\text{dBuV} \sim 88\text{dBuV}$, system index is optimum.
- Front panel has 20 grade OMI status display (Modulation Depth).
- Dual power supply inside backup. Full-automatically switch.
- Full-automatically control of casing temperature, ensure long life of the laser.
- Automatic fan control when casing temperature reach 45°C
- When casing temperature reach 35°C the transmitter will shut down automatically
- Dual RF input port
- AM interface; Input 59 routes PAL-D (47-550MHz).
- Digital interface (-10dB): Input digital video (550-750MHz). Time locked function.

SPECIFICATIONS

Performance	Index	Supplement
Wavelength	1310±10 nm	
Output power	4~24 mW	
Return loss	≥60 dB	
optical fiber connector	FC/APC	SC/APC
RF feature		
Work bandwidth	45-862 MHz	
Input level	20±2 dBmV	
Flatness	≤±0.75 dB	45~862MHz
Return loss	>16 dB	45-750MHz
Input impedance	75 Ω	
RF interface	F type	Optional imperial
Link feature		
Transmit channel	PAL-D/60CH	NTSC/80CH
CNR	≥52 dB	10Km optical fiber, 0dBm receive
CTB	≤-67 dB	
CSO	≤-63 dB	
General feature		
Network management interface	RJ45, RS232	Support I.E. & SNMP
Power supply	90~265VAC V	-48VDC optional(30~60VDC)
Power Consume	≤50 W	Single power works
Work temp.	-5~65 °C	Machine temp. control automatically
Storage temp.	-40~85 °C	
Operating relative humidity	5~95 %	
Size (W)x(D)x(H)	317 x244 x127 mm	

ORDERING INFORMATION

Model	Power (mW)	Bandwidth (MHz)	Technical index (59 channel PAL-D) (dB)				SNMP Network Management
			Link Loss	CNR2	CTB	CSO	
LCT3DMO04-cc-dd	≥4	47-860	7	≥52	≤-67	≤-63	
LCT3DMO06-cc-dd	≥6	47-860	9	≥52	≤-67	≤-63	
LCT3DMO08-cc-dd	≥8	47-860	10	≥52	≤-67	≤-63	
LCT3DMO10-cc-dd	≥10	47-860	11	≥52	≤-67	≤-63	
LCT3DMO12-cc-dd	≥12	47-860	12	≥52	≤-67	≤-63	
LCT3DMO14-cc-dd	≥14	47-860	12.5	≥52	≤-67	≤-63	
LCT3DMO16-cc-dd	≥16	47-860	13	≥52	≤-67	≤-63	
LCT3DMO18-cc-dd	≥18	47-860	13.5	≥52	≤-67	≤-63	
LCT3DMO20-cc-dd	≥20	47-860	14	≥52	≤-67	≤-63	
LCT3DMO22-cc-dd	≥22	47-860	14.5	≥52	≤-67	≤-63	
LCT3DMO24-cc-dd	≥24	47-860	15	≥52	≤-67	≤-63	
cc	FA	- FC/APC					
	SA	- SC/APC					
dd	22	- 220V AC					
	11	- 110V AC					
	48	- 48V DC					
	42	- 48V DC & 220V AC					
x	M						with SNMP Network Management
	N						without SNMP Network Management