

# Doteck

## Doteck LB7 Series

### 7-channel L-Band fiber optic Transmission System



#### Features

- (1) Variety of technical specifications and design shows the characteristics of satellite L-band fiber optic link products in current market and it's the best solution with lowest cost
- (2) Bandwidth at 950~2150MHz, can transmit analogue or digital signal from L-band of all satellites
- (3) TG transmitter, and AGC amplifier inside
- (4) Perfect laser APC, ATC controls circuit guaranteeing the laser's long service life and high stable operating
- (5) Transmitter could send 13VDC or 18VDC to LNB
- (6) All the working specifications are controlled by microprocessor. It is used in the project with high requirement
- (7) Prevent from electromagnetism, RF and thunder and lightning interference strongly
- (8) All components, including connectors, are ordered from public-known

manufacturers in the world, high stability and reliability ensurance

(9) Enclosure box material is made of aluminum, elegant appearance, and light weight

### **Applications**

- (1) Satellite L-band fiber optic assignment system
- (2) Ocean ship satellite fiber optic assignment system
- (3) Satellite L-band up/down fiber optic link

### **Introduction**

Dotek LB7 series L-band fiber optic transmission system is working under the bandwidth of 950~2150MHz, which could convert all L-band analogue or digital satellite signals got by LNB to optical signal, support transmission of 7-channel L-band satellite signal on one optical fiber, via a single fiber to achieve full transparency, high quality, long distance transmission. It is also used in fiber optic assignment in satellite building and satellite L-band up/down link, use agile and convenient installation.

### **Technical Specifications**

<b>RF parameters</b>	
Frequency range	950~2150MHz
Level input	-45~-20dBm
Level output	-30~-25dBm
Smoothness	$\pm 1.0\text{dB}(950\sim 2150\text{MHz})$
Channel	7
Input impedance	$75\ \Omega$
RF return loss	$\geq 10\text{dB}$
RF connector	F-type
Intermodulation	$\leq -40\text{dBc}$

Noise figure	42dB
Link gain	0-10dB
<b>Physical</b>	
Dimension(H×W×D, mm)	133×483×350(mm)
Power supply	130-260VAC, 50/60Hz
Power consumption	<20W
Operation temperature	0-50℃
Relative humidity	0-95%, non-condensing
<b>Fiber optic link</b>	
Wavelength	1310nm/1550nm
Number of fiber	1 or 7
Connector	FC/APC
Distance	0-20km, or 0-40km optional

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