



## Main Feature

- Frequency Range: 7/8GHz,13 GHz,15 GHz,18 GHz,23 GHz
- Interface: 4E1, 8E1,16E1,E3,DS3,10/100M, ASI at 32Mb/s
- Modular Design, high performance and reliability
- Convolutional Interleaver, Punctured convolutional encoding
- RS encoding, QPSK Modulation
- Low power consumption and high gain
- IDU and ODU link through coaxial-cable with automatic equalization for more than 300 meters.
- Frequency Agility and easy Tuning on site
- Output Level control 1dB step
- System Redundancy 1+0 and 1+1
- Local LCD control, remote serial control and loop back test



## Technical Specification

### General:

- Capacity: 4E1, 8E1, 16E1, E3, DS3, ASI, 10/100M  
With maximum bit rate of 32Mb/s
- Channel Setting: LCD and remote hyper terminal
- EMC: ITU-R F. 746-3, YD1138-2001
- Redundancy: 1+0 or 1+1
- Power Supply: DC: +24/-48V
- Power Consumption: <40W (1+0)  
<80W (1+1)
- Temperature Range: IDU: -10°C~+50°C,  
ODU: -40 ~ +55°C
- Relative humidity: IDU: 0~90%,  
non-condensing; ODU: 0~100%,
- Physical Dimension: IDU: 1RU 19 inch standard  
Rack ODU: 285\*285\*150mm
- Weight: IDU: <3kg ; ODU: <7 kg

### Data Interface

- Baseband Interface: ITU-T G. 703, HDB3
- Monitoring Interface: RS-232/ RS-485
- LAN Interface: 10/100M

### Service Channel

- Telephone service: 1 digital line
- Data service: 19.2kbit/s, RS-232/R-485

### Transmitter:

- Modulation Type: QPSK
- Frequency and RF Output Power Level:
  - 7/8GHz: 25dBm
  - 13 GHz: 25dBm
  - 15 GHz: 19dBm
  - 18 GHz: 19dBm
  - 23 GHz: 17dBm
- Frequency Stability: ±10ppm
- IF Output Frequency: 310 MHz

### Receiver

- Noise Factor: ≤4dB
- LO Frequency Stability: ±10ppm
- IF Input Frequency: 70 MHz
- AGC Range: ≥50 dB
- Received Threshold BER=1\*10<sup>-6</sup>
  - 4E1: ≤-87 dBm
  - 8E1: ≤-84 dBm
  - 16E1: ≤-82 dBm
- Residual BER: ≤1\*10<sup>-13</sup>

### Monitor System

- Operating System: WIN2000/WINXP
- NMS Software

