TELNET

Redes Inteligentes

Green: Normal
Red: Low

FTTH Optical Receiver

Wave TV 101+

User manual

Versions

VERSION	DATE	DESCRIPTION	AUTHOR
0	11/25/2020	Initial version	Operations Dept.

Index

1 Applications

WaveTV 101+ is home optical receiver with optical fiber access as its ultimate objective. It is suitable for FTTH (fibre to the home) network fiber subscriber access terminals, enabling analog or digital signals to enter the home. The machine uses low-power photo detectors, GaAs and optical AGC technology to meet the fiber-to-the-home CATV reception needs. This device can increase WDM and achieve triple play.

2 Performance features

- High quality aluminium profile shell with good heat dissipation
- RF channel full GaAs low noise amplifier circuit. The digital signal satisfies -10dBm reception at a minimum, and the -10dBm reception of an analog signal at a minimum
- With light input AGC (AGC range can be customized according to user)
- Low-power design, using high-efficiency switching power supply to ensure high reliability and high stability of the power supply. The overall power consumption is less than 1W, with a light detection circuit
- Multi-stage lightning protection devices (TVS transient suppression diodes), and lightning protection systems are tight to ensure safe operation of the equipment
- Built-in WDM can realize single-fiber home (1490/1310/1550nm) tri-network convergence applications
- Built-in optical isolator, input to achieve 1490/1310nm isolation.
- The output gain is manually adjustable (0-18dB) and the output level is >80dBuV
- SC/APC or FC/APC or custom optical connectors, metric or imperial RF interfaces
- it can realize the power supply mode of output feed
- Can realize single or dual output

3 Technical indicators

Input optical power	0dBm/-10dBm(Analog signal)	Carrier to Noise Ratio (Note)	>/=51dB
	&0dBm/-10dBm(Digital signal)	AGC Control range	0dBm/-9dBm
optical reflection loss	>45 dB	CTB(note)	>/=65dB
Optical connector form	FC/APC or SC/APC or FC/PC or SC/PC	CSO(note)	>/=62dB
Frequency Range	45-1006MHz	Host voltage DC5V	
In-band flatness	±1dB@45 - 1006MHz	Adapter voltage AC90V -145V&AC145V - 265V	
RF output reflection	16dB@ 47- 550MH ;	Infeed voltage DC5V	
Gain adjustment range	0-18dB	Operating temperature -20°C /+55 °C	
Output level	(78 - 80) dBuV(AGC:@-9/+0 dBm , Pin=0dBm)	power	<1W
Output port number	1 or 2	Product net size	129x79x26mm
RF output impedance	75 ohm	Product net weight	0.17kg

Note: Test conditions: 59 PAL-D analog television channel signals at 550 MHz frequency range, in the range of 550 MHz to 862 MHz, under specified link loss conditions.

The digital modulation signal is transmitted within the rate range, the level of the digital modulation signal (within the 8 MHz bandwidth) is 10 dB lower than the carrier level of the analog signal, and the optical receiver input optical power is 0 dBm, measuring C/N, CTB, CSO.

4 Product manual

WEEE Regulations

This symbol on the product means that used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge.

By submitting this product for environmental management you are avoiding the possible negative consequences for the environment and health deriving from inappropriate disposal. In addition, recycling of materials in this product you get a significant savings in energy and resources.

For the collection of the product may contact the Commercial Department of TELNET Redes Inteligentes SA on the phone 976.14.18.00 with your dealer or visit the website www.telnet-ri.es

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