RF Repeater_Single Band

JTD-RP-C2OL-H (20dBm)



2600 MHz

LTE2600(FDD)

The RF Repeater provides an affordable solution to solve the indoor signal coverage problems due to signal fading and attenuation caused by architecture obstacles. And its easy installation and maintenance can help carrier get fast return.

The repeater is working as a relay between the BTS and mobiles. It picks up the strongest signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Indoor Signal Distribution System to the weak/blind coverage area. And the mobile signal is also amplified and retransmitted to the BTS via the opposite direction.

Key features

- Two signal ports with full duplex design.
- Linear power amplification to effectively suppress inter-modulation and spurious emission.
- Stable and improved signal transmission quality.
- Compact size with stable performance.
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously.
- Auto Isolation check between service and donor antennas.
- > Smart mode to auto-adjust gain according to the isolation and signal level received by donor site.
- Auto shut off function available for both uplink and downlink.
- Simple installation with external AC/DC adapter.
- Cost-effective for practical solutions.

Advantages

- ☑ Multi_standards/Multi_operators
- Support antenna isolation detection
- Smart function to set the proper gain automatically



Specifications

Frequency Range LTE2600 2500-2570MHz 2620 - 2690MHz Operation Bandwidth (-3dB) Wide Band Maximum Gain ≥65dB ≥70dB Output Power ≥15dBm ≥20dBm MGC (Manual Gain Control) 31dB range/1dB step AGC (Automatic Gain Control) ≥25dB Spurious Emission 9KHz-1GHz ≤ -36dBm 1GHz-12.75GHz ≤ -30dBm Noise Figure ≤ 6dB VSWR ≤ 2.0 Group Delay ≤1µs LED Alarm Power LED DC ON/OFF ISO When AGC control over 25dB range, the ISO will turn to RED, and repeatively shut off. AGC Alarm Alarm RED when AGC control over 10dB Smart Mode Automatically adjust the gain in both links according to the specific environment.	Parameters		Uplink	Downlink
Maximum Gain ≥65dB ≥70dB Output Power ≥15dBm ≥20dBm MGC (Manual Gain Control) 31dB range/1dB step AGC (Automatic Gain Control) ≥25dB Spurious Emission 9KHz-1GHz ≤ -36dBm Spurious Emission 9KHz-1GHz ≤ -30dBm Noise Figure ≤ 6dB VSWR ≤ 2.0 Group Delay ≤1µs LED Alarm Power LED Smart function ON/OFF ISO When AGC control over 25dB range, the ISO will turn to RED, and repeat will shut off. AGC Alarm Alarm RED when AGC control over 10dB Smart Mode Automatically adjust the gain in both links according to the specific	Frequency Range	LTE2600	2500~2570MHz	2620 ~ 2690MHz
Output Power ≥15dBm ≥20dBm MGC (Manual Gain Control) 31dB range/1dB step AGC (Automatic Gain Control) ≥25dB Spurious Emission 9KHz~1GHz ≤ -36dBm Noise Figure ≤ 6dB VSWR ≤ 2.0 Group Delay ≤1μs LED Alarm Power LED DC ON/OFF ISO When AGC control over 25dB range, the ISO will turn to RED, and repeating shut off. AGC Alarm Alarm RED when AGC control over 10dB Smart Mode Automatically adjust the gain in both links according to the specific	Operation Bandwidth (-3dB)		Wide Band	
MGC (Manual Gain Control) AGC (Automatic Gain Control) Spurious Emission PKHz-1GHz 1GHz-12.75GHz Signature Mode Automatically adjust the gain in both links according to the specific	Maximum Gain		≥65dB	≥70dB
AGC (Automatic Gain Control) Spurious Emission 9KHz~1GHz 1GHz~12.75GHz Signat Made 9KHz~1GHz 9KHz~1GHz 1GHz~12.75GHz 9KHz~1GHz 1GHz~12.75GHz 1GHz	Output Power		≥15dBm	≥20dBm
Spurious Emission 9KHz~1GHz ≤ -36dBm Noise Figure ≤ 6dB VSWR ≤ 2.0 Group Delay ≤1µs LED Alarm Power LED DC ON/OFF Smart function ON/OFF ISO When AGC control over 25dB range, the ISO will turn to RED, and repeated will shut off. AGC Alarm Alarm RED when AGC control over 10dB Smart Mode Automatically adjust the gain in both links according to the specific	MGC (Manual Gain Control)		31dB range/1dB step	
Spurious Emission 1GHz~12.75GHz ≤ -30dBm Noise Figure ≤ 6dB VSWR ≤ 2.0 Group Delay ≤ 1μs LED Alarm DC ON/OFF Smart LED Smart function ON/OFF ISO When AGC control over 25dB range, the ISO will turn to RED, and repeated will shut off. AGC Alarm Alarm RED when AGC control over 10dB Smart Mode Automatically adjust the gain in both links according to the specific	AGC (Automatic Gain Control)		≧25dB	
Noise Figure ≤ 6dB	Spurious Emission	9KHz~1GHz	≦ -36dBm	
VSWR Group Delay ∠1μs DC ON/OFF Smart LED Smart function ON/OFF When AGC control over 25dB range, the ISO will turn to RED, and repeating shut off. AGC Alarm Alarm RED when AGC control over 10dB Automatically adjust the gain in both links according to the specific		1GHz~12.75GHz	≦ -30dBm	
Group Delay LED Alarm Power LED DC ON/OFF Smart LED Smart function ON/OFF ISO When AGC control over 25dB range, the ISO will turn to RED, and repeating shut off. AGC Alarm Alarm RED when AGC control over 10dB Smart Mode Automatically adjust the gain in both links according to the specific	Noise Figure		≤ 6dB	
Power LED DC ON/OFF	VSWR		≦2.0	
Smart LED Smart function ON/OFF When AGC control over 25dB range, the ISO will turn to RED, and repeated will shut off. AGC Alarm Alarm RED when AGC control over 10dB Automatically adjust the gain in both links according to the specific	Group Delay		≤1µs	
Smart LED Smart function ON/OFF When AGC control over 25dB range, the ISO will turn to RED, and repeated will shut off. AGC Alarm Alarm RED when AGC control over 10dB Automatically adjust the gain in both links according to the specific	LED Alarm	Power LED	DC ON/OFF	
AGC Alarm Alarm RED when AGC control over 10dB Automatically adjust the gain in both links according to the specific		Smart LED	Smart function ON/OFF	
Automatically adjust the gain in both links according to the specific	ISO		When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off.	
	AGC Alarm		Alarm RED when AGC control over 10dB	
	Smart Mode			
RF Connector N-Female	RF Connector		N-Female	
Impedance 50Ω	Impedance		50Ω	
Power Consumption ≤12W	Power Consumption		≤12W	
Power Supply Input: AC 110-240V; Output: DC 6V/3A	Power Supply		Input: AC 110-240V; Output: DC 6V/3A	
Operating Temperature -10°C~50°C	Operating Temperature		-10℃~50℃	
Environment Conditions IP40	Environment Conditions		IP40	
Dimensions (D x W x H) 128*170*65mm	Dimensions (D x W x H)		128*170*65mm	
Weight ≤2.2KG	Weight		≤2.2KG	

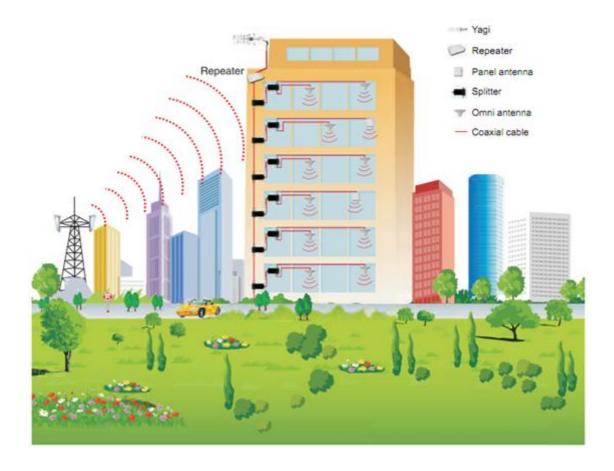
Tel:+886-2-28828979 Fax:+886-2-28829196

Applications

To expand signal coverage or fill signal blind area where signal is weak or unavailable.

Outdoor: Airports, tourism regions, golf courses, tunnels, factories, mining districts, villages, ...

Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...



E-Mail: sales@jtd.com.tw