Description: Digital Dual Band Repeater

Model: DS40T-DW

Product Overview

Huaptec High power digital repeater is a relay amplifier device for the same frequency mobile communication signal. It is commonly used to optimize mobile networks. Mainly used for extending the coverage for BTS and eliminating the blind areas. Comparing to BTS, the features are: low engineering cost, short construction period, simple installation and maintenance.

The repeater is optional industry level remote control and monitoring function and can be controlled and monitored by one console.

Key Features

- MGC and AGC function
- Independent uplink and downlink gain control and on/off for each sub band
- Each sub band is movable anywhere within respective band
- No Hurdles for Network Migration without changing any Hardware
- Designed for indoor or outdoor installation
- High integration with lesser cable Interface
- Local Access: PC via USB or RJ45 cable, Phone APP via Bluetooth
- Remote Access: Wi-Fi connection or via Ethernet, GPRS/3G/4G Data
- support customized dual frequency bands from(700,800,850,900,1800,2100,2600)

RF Parameters

	Bands	Uplink	Downlink
Frequency Band	GSM/LTE 1800	1710MHz-1785MHz	1805MHz-1880MHz
	WCDMA/UMTS2100	1920MHz-1980MHz	2110MHz-2170MHz
Gain		85dB	90dB
Max Output Power		23dBm	40dBm
Bandwidth	GSM/LTE 1800	2*0.2-20MHz tunable and movable （0.1MHz /step）	
	WCDMA/UMTS2100	2*0.2-20MHz tunable and movable （0.1MHz /step）	
MGC (Step Attenuation)		≥ 31 dB / 1 dB step	
Automatic Gain Control		≥ 51 dB	
Gain Flatness		≤ 6 dB	
Noise Figure		≤ 6 dB	
Group Delay		≤ 7.5 μs	
VSWR		≤1.5	
Frequency Stability		≤0.01ppm	
Spurious Emission	9KHz~1GHz	≤-36dBm	
	1GHz-12.75GHz	≤-30dBm	
UMTS System	Spurious Emission Mask	Meet 3GPP TS 25.143, 3GPP TS 25.106	

	EVM	≤ 12.5%
LTE System	Spurious Emission Mask	Meet 3GPP TS 36.143, 3GPP TS 36.106
	EVM	≤ 8%

Electrical Parameters

Impedance	50 ohm
Power Supply	Input AC 100~240 V, 50/60 Hz
Power Consumption	≤ 320W

Mechanical Parameters

I/O Port	N-Female
Dimensions	490*410*232 mm
Weight	35 kg

Environmental Parameters

Operating Temperature	(-)25 ºC~+55 ºC
Storage Temperature	(-)40°C to +85°C
Relative Humidity	5% - 95%
Environment Conditions	IP65

Software

Local Monitoring	PC via USB/RJ45, Phone via Bluetooth
Remote Monitoring	SIM Card/Wifi/Ethernet
Controlled Parameters	Gain, Frequency, Repeater ON/OFF, Alarm Message, etc.
Monitoring Parameters	Gain, Frequency, Repeater ON/OFF, Alarm Message, etc.
Alarm Items	High temperature Alarm , Power-off Alarm, etc.

Applications

Expand signal coverage of fill signal blind area where signal is weak or unavailable.

Indoor: Hotels, Exhibition Centers, Basements, Shopping Malls, Offices, Parking Lots etc.

It is mainly applicable to such case