

## Description: Digital Dual Band Repeater

### Model: DL20T-DW

#### Product Overview

Huaptec low 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 subband
- Each sub band is movable anywhere within respective band
- No Hurdles for Network Migration without changing any Hardware
- Designed for indoor installation
- High integration with lesser cable Interface
- Local Access: Phone APP via Bluetooth or PC via USB or Ethernet
- Remote Access: Wi-Fi connection or via Ethernet, 3G/4G Data
- support customized dual frequency bands from(700,800,850,900,1800,2100,2600)

#### RF Parameters

	<b>Bands</b>	<b>Uplink</b>	<b>Downlink</b>
<b>Frequency Band</b>	GSM/LTE 1800	1710MHz-1785MHz	1805MHz-1880MHz
	WCDMA/UMTS 2100	1920MHz-1980MHz	2110MHz-2170MHz
<b>Gain</b>		65dB	70dB
<b>Max Output Power</b>		17dBm	20dBm
<b>Bandwidth</b>	GSM/UMTS/LTE 900	2*0.2-20MHz tunable and movable (0.1MHz /step)	
	WCDMA/UMTS 2100	2*0.2-20MHz tunable and movable (0.1MHz /step)	
<b>MGC (Step Attenuation)</b>		≥ 31 dB / 1 dB step	
<b>Automatic Gain Control</b>		≥ 51 dB	
<b>Gain Flatness</b>		≤ 6 dB	
<b>Noise Figure</b>		≤ 6 dB	
<b>Group Delay</b>		≤ 4 μs	
<b>VSWR</b>		≤ 2	
<b>Frequency Stability</b>		≤ 0.01ppm	
<b>Spurious Emission</b>	9KHz~1GHz	≤ -36dBm	
	1GHz-12.75GHz	≤ -30dBm	
<b>UMTS System</b>	Spurious Emission Mask	Meet 3GPP TS 25.143, 3GPP TS 25.106	

	EVM	$\leq 12.5\%$
<b>LTE System</b>	Spurious Emission Mask	Meet 3GPP TS 36.143, 3GPP TS 36.106
	EVM	$\leq 8\%$

**Electrical Parameters**

<b>Impedance</b>	50 ohm
<b>Power Supply</b>	Input AC 100~240 V, 50/60 Hz/Output DC12V-4A
<b>Power Consumption</b>	$\leq 25W$

**Mechanical Parameters**

<b>I/O Port</b>	SMA-Female
<b>Dimensions</b>	266*171*55 mm
<b>Weight</b>	2 kg

**Environmental Parameters**

<b>Operating Temperature</b>	(-)25 °C~+55 °C
<b>Storage Temperature</b>	(-)40°C to +85°C
<b>Relative Humidity</b>	5% - 95%
<b>Environment Conditions</b>	IP40

**Software**

<b>Local Monitoring</b>	PC via USB/Ethernet, phone via Bluetooth
<b>Remote Monitoring</b>	SIM Card/Wifi/Ethernet
<b>Controlled Parameters</b>	Gain, Frequency, Repeater ON/OFF, Alarm Message, etc.
<b>Monitoring Parameters</b>	Gain, Frequency, Repeater ON/OFF, Alarm Message, etc.
<b>Alarm Items</b>	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