Product Data Sheet

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Email: info@huaptec.com

Product	20dBm Dual Band Indoor -Home Digital Repeater
Model No	R02-DB

Key Features

- Support 2G/3G/4G
- Capable of handling spectrum sharing technology
- Coveage Area of 100-500m²
- MGC and AGC function
- Supports Dual Band of any respective Bands (800/900/1800/2100/2600/3500)
- Independent uplink and downlink gain control and on/off for each sub band
- Each sub band is movable anywhere with in respective band
- No Hurdles for Network Migration without changing any Hardware
- Designed for indoor installation
- High integration with lesser cable Interface
- Applications: Warehouses, basements, industrial buildings, small open areas
- Local Management: Operating from USB or Bluetooth using EMS Mobile APP software
- Remote Management: Operating from SIM Card or Wi-Fi connection using EMS Mobile APP Software



Picture for Reference Only

RF Parameters

	Bands	Uplink		Downlink	
Supports Dual Band of any Frequency Ranges	800 Band(FDD)	832MHz	862MHz	791MHz	821MHz
	900 Band (FDD)	880MHz	915MHz	925MHz	960MHz
	1800 Band (FDD)	1710MHz	1785MHz	1805MHz	1880MHz
	2100 Band(FDD)	1920MHz	1980MHz	2110MHz	2170MHz
	2600 Band (FDD)	2500MHz	2570MHz	2620MHz	2690MHz
	3500 Band(TDD)		3400MHz		3800MHz
Gain			65dB		70dB
Max Output Power			17dBm		20dBm
Band width	800 Band(FDD)		3*10MHz 0.2-10MHz Moveable and Tuneable		
	900 Band (FDD)		3*10MHz 0.2-10MHz Moveable and Tuneable		
	1800 Band (FDD)		2*20MHz 0.2-20MHz Moveable and Tuneable		
	2100 Band(FDD)		3*10MHz 0.2-10MHz Moveable and Tuneable		
	2600 Band (FDD)		2*20MHz 0.2-20MHz Moveable and Tuneable		
	3500 Band(TDD)		100MHz Bandwidth (fixed)		
MGC (Step Attenuation)			≥ 31 dB / 1 dB step		
Automatic Gain Control			≥ 51 dB		
Gain Flatness			≤ 6 dB		
Noise Figure			≤ 6 dB		
Group Delay			≤ 7 μs		
VSWR			≤2		
Frequency Stability			≤0.01ppm		
Intermodulation GSM	9KHz~1GHz		≤-36dBm		
	1GHz-12.75GHz		≤-30dBm		
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%		
	Peak Code Domain Error		≤ -35dB@Spreading Factor 256		
	ACRR		≤ 20dB/30KHz @± 5MHz ≤ 20dB/30KHz @± 10MHz		
LTE System	Spurious Emission Mask		Meet 3GPP TS 36.143, 3GPP TS 36.106		
	EVM		≤ 8%		
	ACRR		≤ 20dB/30KHz @± 5MHz ≤ 20dB/30KHz @± 10MHz		
ICS / ICE Performance			≥15dB		≥15dB
Maximum Input Power			≤-10dBm		≤-10dBm

Electrical Parameters

Impedance	50 ohm
Power Supply	Input AC100~240 V, 50~60 Hz
Power Consumption	≤ 45 W

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Product	**20dBm Dual Band Indoor -Home Digital Repeater**
Model No	**R02-DB**

Mechanical Parameters

I/O Port	N-Female
Dimensions(LXWXH)	220*310*55 mm
Weight	≤ 4 kg

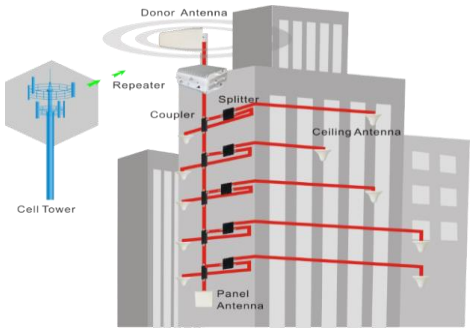
Environmental Parameters

Operating Temperature	(-)25 ºC~+55 ºC
Storage Temperature	(-)40°C to +85°C
Relative Humidity	5% - 95%
Environment Conditions	IP43

Software

Local Management	Operating from USB or Bluetooth using EMS Mobile APP software
Remote Management	Operating from SIM Card or Wi-Fi connection using EMS Mobile APP Software
Controlled Parameters	Gain, Frequency, Repeater ON/OFF, Alarm Message, etc.
Monitoring Parameters	Gain, Frequency, Repeater ON/OFF, Alarm Message, etc.
Alarm Items	ISO Alarm , ALC Alarm, etc.
Operation & Maintenance Management	Administrator, Support, Inventory Management etc…

Installation Example



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