

Product
DIGITAL REPEATER
Model No
DS27T-5S-IoT

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
- Each sub band tunable with Minimum BW of 0.2MHz up to 20MHz.
- The distance between two sub bands could be as much as respective band's BW
- No Hurdles for Network Migration without changing any Hardware
- Designed for indoor or outdoor installation
- High integration with lesser cable Interface
- Local Access: Phone App via Bluetooth, Ethernet, or USB interface.
- Remote Access: Wi-Fi connectivity, Ethernet, or 3G/4G data connection using SIM.

RF Parameters

	Bands	Uplink	Downlink
Frequency Range	700MHz Lower(A+B)	698MHz	728MHz
	700MHz Upper C	776MHz	746MHz
	Cell800	824MHz	869MHz
	PCS1900	1850MHz	1930MHz
	AWS2100	1710MHz	2110MHz
Max Gain		75dB	80dB
Max Output Power		23dBm	27dBm
Band width	700MHz Lower(A+B)	1*12MHz+1*6MHz FDD LTE	
	700MHz Upper C	1*12MHz+1*6MHz FDD LTE	
	Cell800	2*15MHz+2*5MHz GSM,CDMA,UMTS	
	PCS1900	1*20 MHz +1*15 MHz +2*5 MHz GSM,CDMA,UMTS,FDD LTE	
	AWS2100	3*10 MHz +1*5 MHz CDMA,UMTS,FDD LTE	
MGC (Step Attenuation)		≥ 31 dB / 1 dB step	
Automatic Gain Control		≥ 51 dB	
Gain Flatness		Typical ≤ 3~6 dB	
Noise Figure		Typical ≤ 5~6 dB	
Group Delay		≤ 7.5 μs	
VSWR		≤ 2	
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%	
	Peak Code Domain Error	≤ -35dB@Spreading Factor 256	
	ACRR	≤ 20dB/30KHz @±5MHz	
LTE System	Spurious Emission Mask	Meet 3GPP TS 36.143, 3GPP TS 36.106	
	EVM	≤ 8%	
	ACRR	≤ 20dB/30KHz @±5MHz	
	ACRR	≤ 20dB/30KHz @± 10MHz	
Maximum Input Power		≤ -10dBm	≤ -10dBm

Electrical Parameters

Impedance	50 ohm
Power Supply	Input AC100~240 V, 50~60 Hz, USA Type B
Power Consumption	≤ 165 W

Huaptec Telecom GmbH
Phone: (44)20 3239 5802
Address: Herderstr. 94, 40721 Hilden,
Germany
Email: sales2@huaptec.eu

Huaptec US Inc.
Phone: (469) 870-2552
Address: 3150 Premier Dr., Ste. 130,
Irving, TX 75063
Email: info@hiboost.com

Huaptec Telecom India Private Limited
Address: No 57/2, Ground Floor, 8th
Main, 2nd Stage J.C. Industrial Estate,
Yelachenahalli, Kanakapura Main Road
Bengaluru, Phone: +91-80-45973000 &
49572000, Email: info@huaptec.in

HiBOOST® Product Data Sheet

Address: 3rd FL, E BLDG, Sogood Science Park, Hangkong Road,
Xixiang, Bao'an, Shenzhen, China 518102, Phone/
Fax: +086-0755-29921615
Email: info@huaptec.com

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Mechanical Parameters

I/O Port	N-Female
Dimensions	450*316*181 mm
Weight	≤ 25 kg

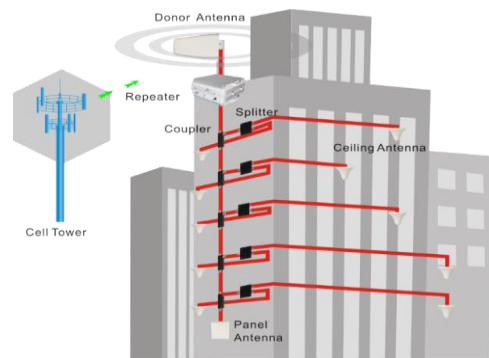
Environmental Parameters

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

Software

Local Monitoring	Bluetooth via Phone App, Ethernet, or USB local interface
Remote Monitoring	Wi-Fi, Ethernet, or 3G/4G Data SIM Card
Controlled Parameters	Gain, Frequency, Repeater ON/OFF, Alarm Message, etc.
Monitoring Parameters	Gain, Frequency, Repeater ON/OFF, Alarm Message, etc.
Alarm Items	Power-off Alarm , ALC Alarm, etc.

Installation Example



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