

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

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	716MHz	728MHz	746MHz
	700MHz Upper C	776MHz	787MHz	746MHz	757MHz
	Cell800	824MHz	849MHz	869MHz	894MHz
	PCS1900	1850MHz	1915MHz	1930MHz	1995MHz
	AWS2100	1710MHz	1755MHz	2110MHz	2155MHz
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

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Mechanical Parameters

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

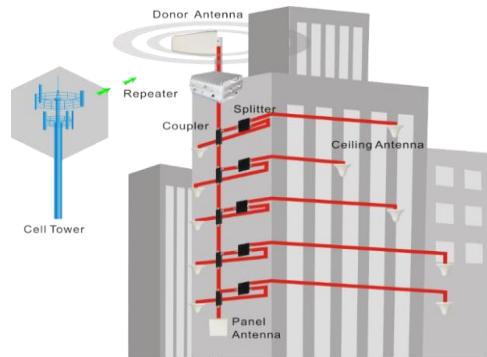
Environmental Parameters

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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