

Description: Triple Band 900+1800+2100 MHz

Model: MDAS27-3S

Product Overview

Huaptec MDAS27-4S quad band fiber MDAS is a multi-service distribution system which is for extending mobile voice and data coverage to indoor and outdoor area, Based on its flexible architecture, the solution supports multi-operators, multi-mobile systems, and high-capacity installation for environments such as high-rise building, shopping malls, offices, airports and stadiums as well as other in-building deployment.

Compared to traditional distribution system, it also has the features of hybrid networking topology flexibility, delay compensation, and uplink low noise floor.

The system is made up of **Master Unit (MU)**, **Extended Unit (EU)** and **Remote Unit (RU)** that can support a single system of up to triple frequency bands. In addition, the modular designed system can be easily configured for optical fiber distribution application by adding more devices. It supports multiple shunt type One MU can support up to six extended units and one EU can support up to 8 RU.

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



MU



EU



RU

RF Parameters

	Bands	Uplink	Downlink
Frequency Band	FDD 900 MHz	880MHz-915MHz	925MHz-960MHz
	FDD 1800MHz	1710MHz-1785MHz	1805MHz-1880MHz
	FDD2100MHz	1920MHz-1980MHz	2110MHz-2170MHz
Gain	38±2dB		
Max Output Power		-15±2dBm	27±2dBm
Bandwidth	FDD 900 MHz	2*0.2-20MHz tunable and movable (0.1MHz /step)	
	FDD 1800MHz	2*0.2-20MHz tunable and movable (0.1MHz /step)	
	FDD2100MHz	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		≤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	
LTE System	EVM	≤ 12.5%	
	Spurious Emission Mask	Meet 3GPP TS 36.143, 3GPP TS 36.106	
	EVM	≤ 8%	

Electrical Parameters

Impedance	50 ohm
Power Supply	MU AC 100-240V
	EU AC 100-240V
	RU AC 100-240V /DC 48V

Mechanical Parameters

I/O Port	N-Female
Dimensions	MU 482*280*44 mm
	EU 400*310*90mm
	RU 370*230*110mm
Weight	MU ≤3.5 kg
	EU ≤5 kg
	RU ≤4 kg

Environmental Parameters

Operating Temperature	(-)25 °C~+55 °C	
Storage Temperature	(-)40°C to +85°C	
Relative Humidity	5% - 95%	
Environment Conditions	MU	IP40
	EU	IP40/IP 65
	RU	IP40/IP 65

Software

Local Monitoring	PC via USB/Ethernet, 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