

**Description:Quad Band 900+1800+2100+2600 MHz****Model:MDAS27-4S**

## 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**

	<b>Bands</b>	<b>Uplink</b>	<b>Downlink</b>
<b>Frequency Band</b>	FDD 900 MHz	880MHz-915MHz	925MHz-960MHz
	FDD 1800MHz	1710MHz-1785MHz	1805MHz-1880MHz
	FDD2100MHz	1920MHz-1980MHz	2110MHz-2170MHz
	FDD 2600MHz	2500MHz-2570MHz	2620MHz-2690MHz
<b>Gain</b>	38±2dB		
<b>Max Output Power</b>		-15±2dBm	27 ± 2dBm
<b>Bandwidth</b>	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)	
	FDD 2600MHz	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>	≤ 7.5 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	
<b>LTE System</b>	EVM	≤ 12.5%	
	Spurious Emission Mask	Meet 3GPP TS 36.143, 3GPP TS 36.106	
	EVM	≤ 8%	

**Electrical Parameters**

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

**Mechanical Parameters**

<b>I/O Port</b>	N-Female
<b>Dimensions</b>	MU 482*280*44 mm
	EU 400*310*90mm
	RU 370*230*110mm
<b>Weight</b>	MU ≤3.5 kg
	EU ≤5 kg
	RU ≤4 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>	MU	IP40
	EU	IP40/IP 65
	RU	IP40/IP 65

**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