

Single Band PIM Analyzers

The Single-Band PIM Analyzers which cover 350~3500MHZ frequency band are used for measuring PIM on broadband passive components (such as base station antenna ,RF connector ,cavity filter, arrester,jump cable,low PIM termination,ect) .These have two measurement models---"Production Mode" and "Engineering Mode " which makes more convenient and accurate observation and analysis of the results of measurement. There are two different configuration of single band analyzers--- "6U type" and "3U type" as follows:

6U type:

6U type has conventional structure with larger inner capacity, which is great for heat dissipation under high-temperature environment.

3U type:

3U type is assembled by two cases. It has two outstanding features. Firstly, interference has been greatly reduced by separating RF amplifier and duplexer receiver. Secondly, the Multiple Band Analyzer can be easily assembled by connecting different Single-Band Analyzers via cables.



Product Features

- Fully configurable frequencies, power and IM products
- High intergration density,no need to build complicated platform
- Simple to operate, user-friendly bilingual (English/Chinese)
- Reflect (standard) and transmit(option)
- Data stored
- Barcode scannig(option)

- Insertion loss compensation function guarantees testing accuracy
- Double reflector ports test with one click(option)
- Three methods of measurement :Dot frequency, Frequency sweep and Time domain
- All bands of China Mobile are covered in PIM testing
- Analyzed result can be exported in format of Microsoft Word/Excel/PDF

Technical Specifications

System

Measurement Method	Reverse (Reflected) PIM / Transmitted PIM
Reversed Residual PIM	< -165dBc@2x+43dBm
Transmission Residual PIM	< -163dBc@2x+43dBm
Testing Ports	2×RF output (7/16 DIN female)
User Interface	4×USB,1×LAN
Display	18"LCD
Intermodulation order	IM2 / IM3 / IM5 / IM7 / IM9

Transmitter

Frequency Increment	200KHz/500kHz/1MHz/2MHz/5MHz/10MHz
Frequency Accuracy	±3ppm
Power per tone (adjustable)	2×1 to 25W (+30 to +44dBm)
Power Stepping	0.5dB
Power Stability	±0.5dB
Reverse Power Protection	100W

Receiver

Measurement Noise Floor	≤-138dBm
Measurement Range	-55dBm to -138dBm
Receiver Accuracy	≤±0.5@-100dBm

Electrical

Mains Power AC 175-250V,50Hz

AC Power 450W

Warm-up Time 3 Minutes

Mechanical

Dimensions/Weight 6U: 470×500×285mm (L×W×H)/approx 30kg

3U×2: 2×480×500×132mm (L×W×H)/approx 30kg

Cooling Forced Air

Environmental

Operating Temperature Range -5 °C to +35°C

Protection Grade Indoor Use

Relative Humidity 5% to 90% RH no-condensing

Models

	System	TX Frequency	RX Frequency
PIM700S	LTE	745-793MHz	697-720MHz
PIM800S	CDMA/NADC/AMPS	869-894MHz	824-849MHz
PIM900S	GSM	935-960MHz	890-915MHz
PIM1800S	DCS 1800	1805-1880MHz	1710-1785MHz
PIM1900S	PCS 1900/LTE	1930-1990MHz	1850-1910MHz
PIM2100S	WCDMA/CDMA 2000	2110-2170MHz	1920-2060MHz
PIM2400S	WLAN	2400-2483.5MHz	2305-2336.5MHz
PIM2600S	WiMAX/UMTS2	2620-2695MHz	2545-2580MHz
PIM3500S	WiMAX/Wireless IP	3510-3594MHz	3410-3484MHz

* Customized