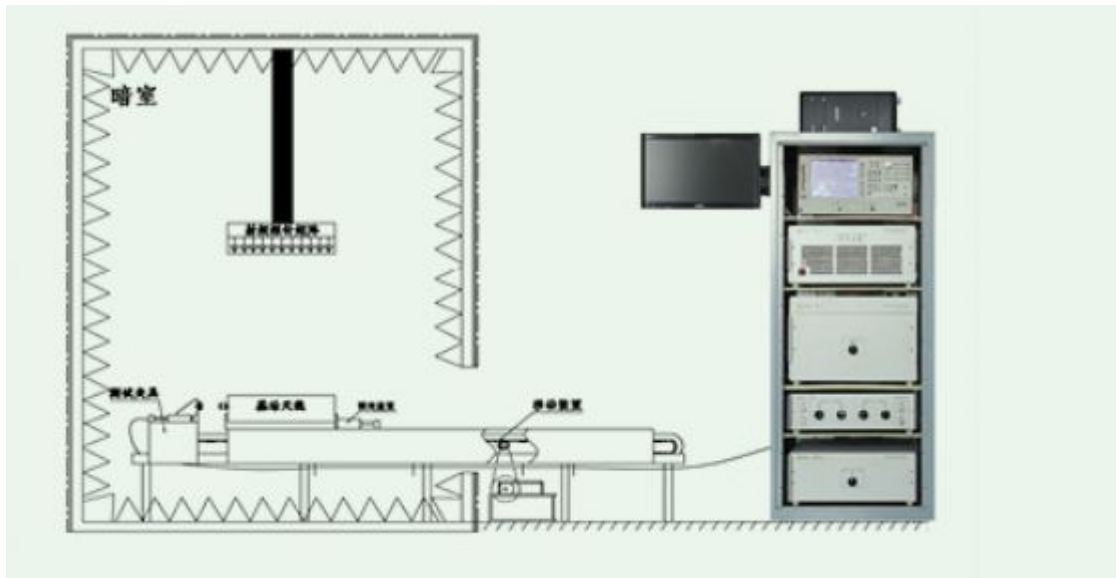


Comprehensive Fast Test System for Base Station Antenna

Base station antenna and S-parameters fast test system make use of PIM Analyzers ,network analyzers ,configuring traditional intermodulation test and S-parameters test (SWR and isolation of each point),which improve the test efficiency of production.This system also use low PIM Antenna Detective Mateix,Automatic Transmission Device(option),Automatic Detection Mobile (option).System can test new field pattern of every antenna fast,Simulate far field pattern,position the area of IM trouble point.The technology fill the domestic blank in this field ,helping producers,integrators,operators evaluate technical indicators of every antenna fast.In addition,the system is based on modular design.It is easy to operate performance stable and convenient to assem and extend.



Product Features

- PIM and S-parameters automatic test
- PIM test cover all frequency band of China Mobile Communication
- Modular design
- Open API port realize personalized test
- Connect with central data bank ,realize data store automatically
- Bar code scan ,set test program based on bar code set
- Huge amounts of data stored
- Comprehensive efficiency is 10 times faster than traditional manual test

- Realize measurement the range of broadband
- Varieties of report form:PDF/Excel/JPG
- Directional diagram automatic test (option)
- Antenna IM trouble spot position

Technical Specifications

System

System	Components	PIM Analyzer Control Cabinet (broadband carrier signal output and broadband reception)
		PIM Power Amplifier Cabinet (Customized)
		PIM Power Passive Cabinet (Customized)
		Vector Network Analyzers
		Low PIM Switch Matrix
		Control Computer
		Automatic Test System Software
		Low PIM Antenna Detection Matrix (Option)
		Automatic Transmission Device(Option)
		Automatic Detection Mobile Device(Option)
Testing Terminal		DIN Type Female
User's Port		4×USB,1×LAN
Display		19" LCD

PIM Analyzer

Power per tone (adjustable)	+30 to +44dBm (+27 to +46dBm)
Power Stepping	0.5dB
Power Stability	±0.5dB
Reverse Power Protection	100W

IM3 Output	$\leq -165\text{dBc}@ 2\times+43\text{dBm}$
Measurement Noise Floor	$\leq -138\text{dBm}$
Receiver Dynamic Range	$-60\text{dBm}\sim-130\text{dBm}$
Frequency Accuracy	$\leq\pm 0.5 @ -100\text{dBm}$
Power Consumption	600W
Power Voltage	220V $\pm 10\%$

Vector Network Analyzers

Adaptive Model	Agilent / HP /Rohde&Schwarz/CETC41
System SWR Measurement Accuracy	$\leq\pm 0.05@1.3$
System Isolation Measurement Accuracy	$\leq 2\text{dB}$

Low PIM switch-box

Frequency Range	0.7~2.7GHz
Port	DIN Type Female
VSWR	≤ 1.20
Reflection IM	$-160\text{dBc}@2\times+43\text{dBm}$
Insertion Loss	$\leq 2.00\text{dB}$
Isolation	$\geq 80\text{dB}(\text{Output to Input})$
Input Power(Max)	100W(Cold Switch)
Control Method	USB
Power Voltage	220V $\pm 10\%$

Mechanical

Dimensions/Weight	19" standard rack / 150Kg
-------------------	---------------------------

Models

Applicable System		Transmit Frequency Band	Receiving Frequency Band
700M Frequency Band	LTE700L	728-746MHz	698-716MHz
700M Frequency Band	LTE700L	728-757MHz	776-787MHz
800M Frequency Band CDMA800	Chinatelecom	869-894MHz	824-849MHz
900M Frequency Band UnicomGSM900	CMCC/China	934-960MHz	889-915MHz
1800M Frequency Band Chinatelecom /China Unicom FDD1.8G	CMCC DCS/ 	1805-1880MHz	1710-1785MHz
2100M Frequency Band WCDMA/Chinatelecom FDD 2.1G		2110-2170MHz	920-2060MHz
2300M Frequency Band TD-LTE 2.3G	Chinatelecom	2380-2390MHz	2370MHz
2300M Frequency Band TD-LTE 2.3G	ChinaUnicom	2310-2320MHz	2300MHz
TD-F Frequency Band F Frequency Band	CMCC TD-LTE	1880-1900MHz	1915-1920MHz
TD-A Frequency Band A Frequency Band	CMCC TD-LTE	2017.5-2025MHz	2010MHz
TD-E Frequency Band E Frequency Band	CMCC TD-LTE	2345-2370MHz	2320MHz
2600M Frequency Band	LTE	2620-2690MHz	2500-2570MHz

*Customized