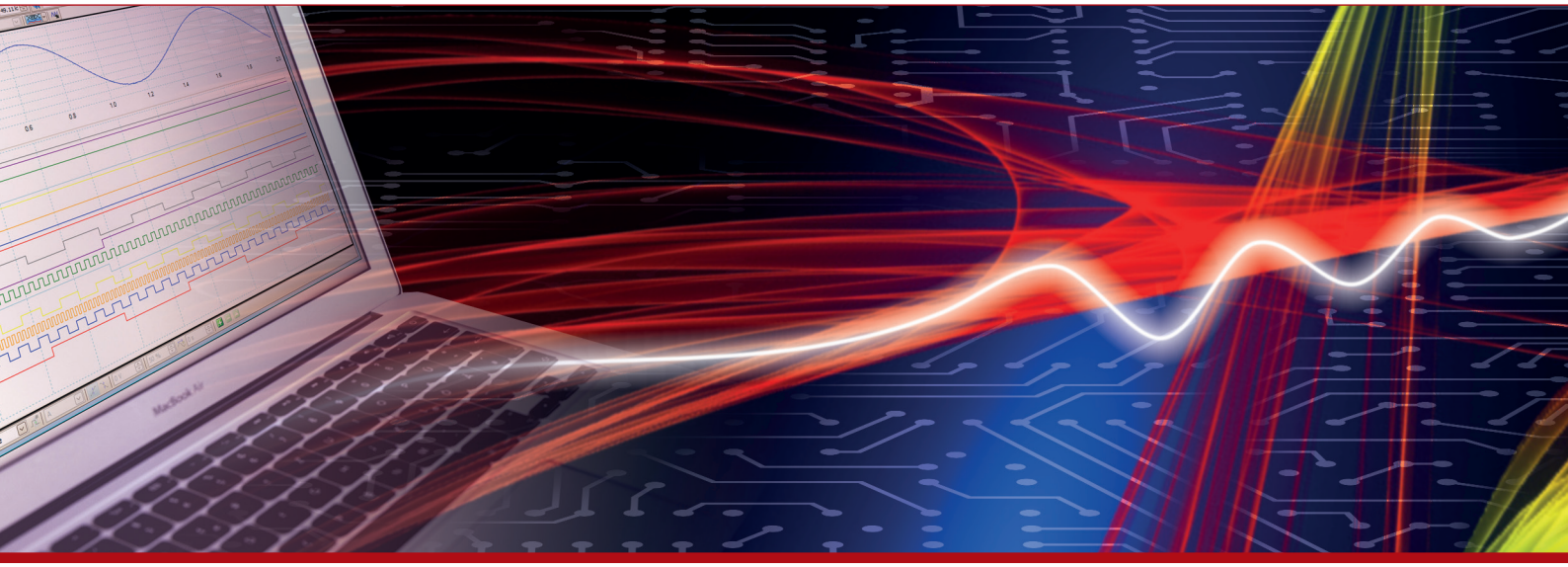
Product Datasheet - Technical Specifications



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Your contact

Technical and commercial sales, price information, quotations, demo/test equipment, consulting:

Tel.: **+49 - 81 41 - 52 71-0**

FAX: **+49 - 81 41 - 52 71-129**

E-Mail: **sales@meilhaus.com**

Downloads:
www.meilhaus.com/en/infos/download.htm

Meilhaus Electronic GmbH
Am Sonnenlicht 2
82239 Alling/Germany

Tel. **+49 - 81 41 - 52 71-0**
Fax **+49 - 81 41 - 52 71-129**
E-Mail **sales@meilhaus.com**

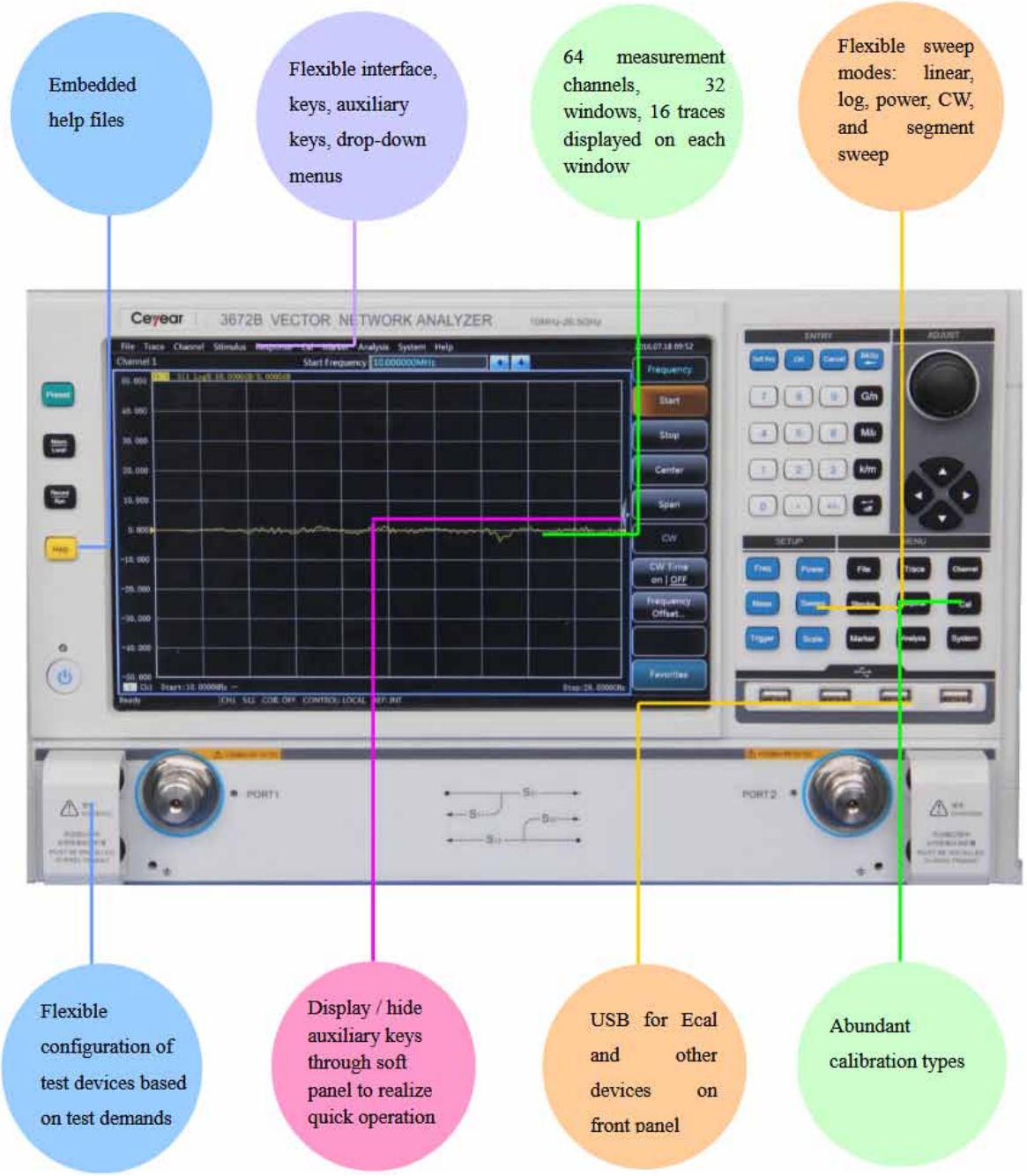
www.meilhaus.de

The 3672 Series Vector Network Analyzers include 3672A (10MHz~13.5GHz), 3672B (10MHz~26.5GHz), 3672C (10MHz~40GHz), 3672D (10MHz~50GHz) and 3672E (10MHz ~67GHz). In terms of hardware, comparing to last generation, the brand-new design concept and technical proposal have upgraded key performance indexes (KPI) of the complete machine such as sweep speed and dynamic range etc.; in terms of software, the embedded computer system (ECS) with high-performance microprocessor chip and the platform based on Windows operating system has greatly improved interconnectivity and usability of the complete machine. 3672 analyzers provide multiple calibration types including frequency response, single port, response isolation, enhanced response and full dual-port, electronic calibration etc., offer various display formats such as logarithmic amplitude, linear amplitude, standing-wave, phase, group delay, Smith chart and polar coordinates, etc.They are designed with several standard interfaces: USB, LAN, GPIB and VGA etc. Besides all measurement functions same as traditional vector network analyzer, through configuration of functional options, 3672 analyzers are also capable of multifunctional & comprehensive parameter test of mixer/converter, gain compression two-dimensional sweep and pulse S-parameters, as well as accuracy measurement of amplitude-frequency characteristics, phase-frequency characteristics and group delay used in the field of transmitting/receiving (T/R) module measurement, dielectric material properties measurement, microwave pulse characteristics measurement and optoelectronic properties measurement, which are indispensable instruments for scientific research and manufacturing process of radar, communication, and navigation systems.

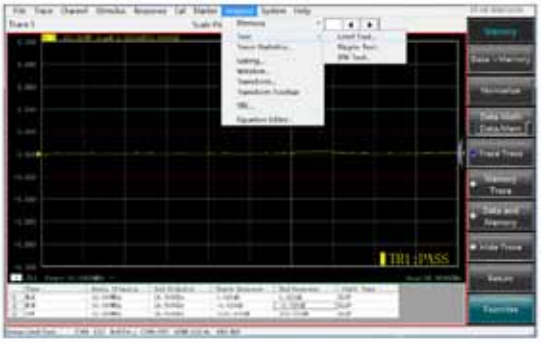
Main Characteristics

- Flexible and optional calibration types, compatible with multiple calibration kits
- Support multi-window, multi-channel tests, fast implementation of complex test scheme
- Available in multiple display formats such as logarithmic amplitude, linear amplitude, standing-wave, phase, Smith chart
- With USB, GPIB, LAN and VGA display interface
- 12.1 inch high resolution touch screen
- Record/run, one-click operation greatly simplifies the measurement setting steps and improves the efficiency
- Available in functions as pulse S parameter measurement, time-domain measurement, mixer measurement, gain compression two-dimensional sweep measurement, millimeter-wave frequency extension, antenna & RCS measurement and receiving etc.

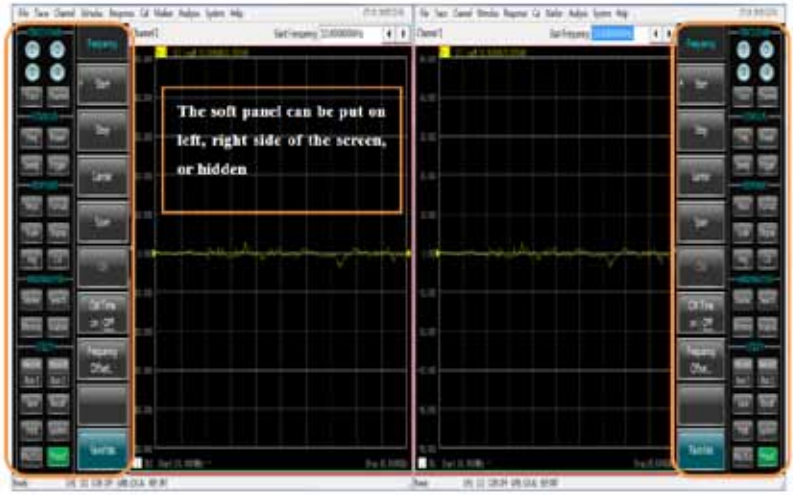
Simple and Novel Operation Interface

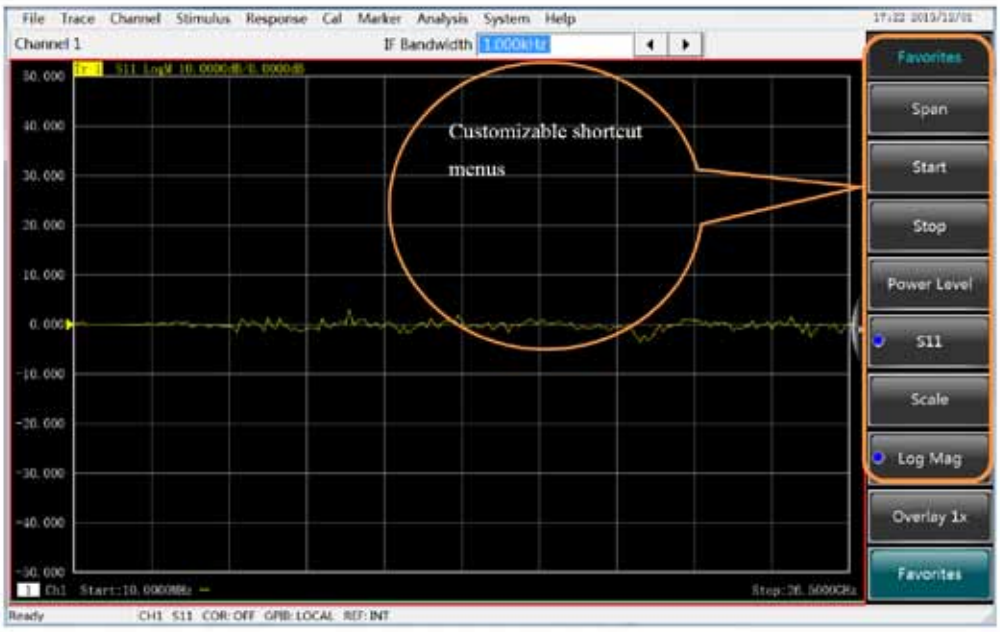


Simple and Novel Operation Interface



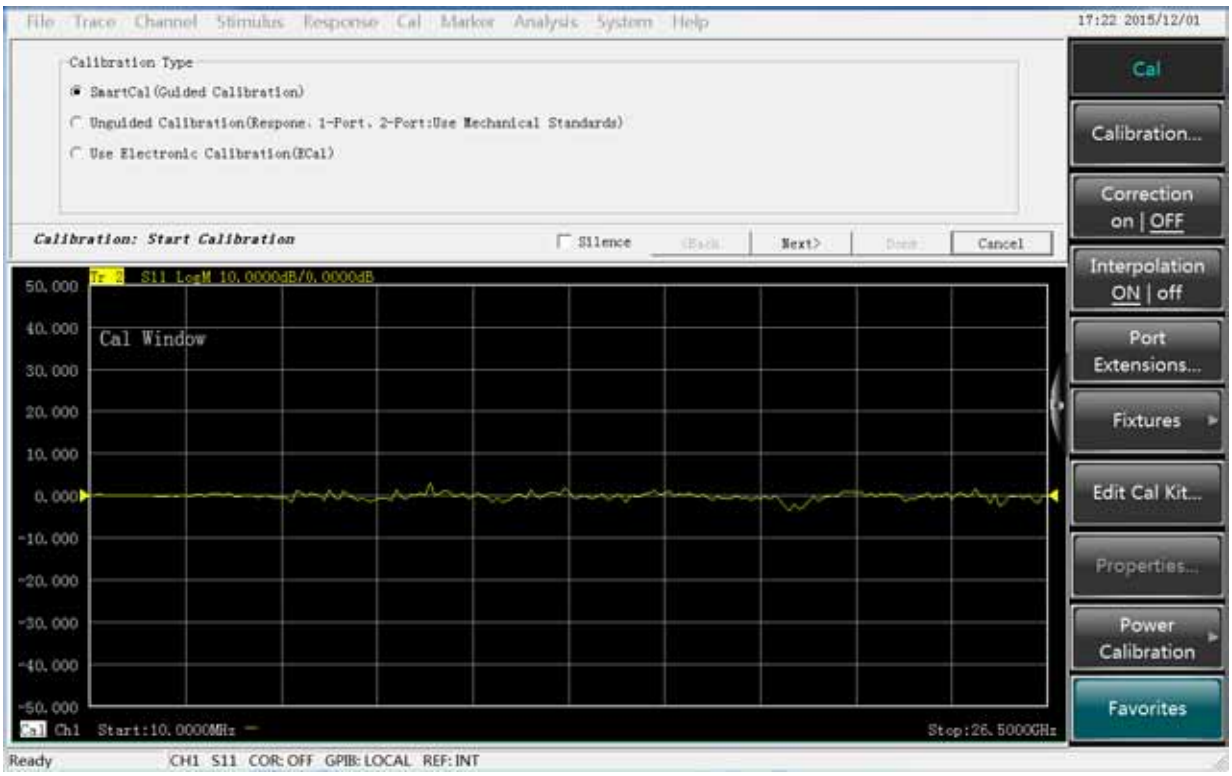
Parameters can be quickly input through activated input toolbar. It can improve the test efficiency to setup the limit line and segment sweep value for production line.





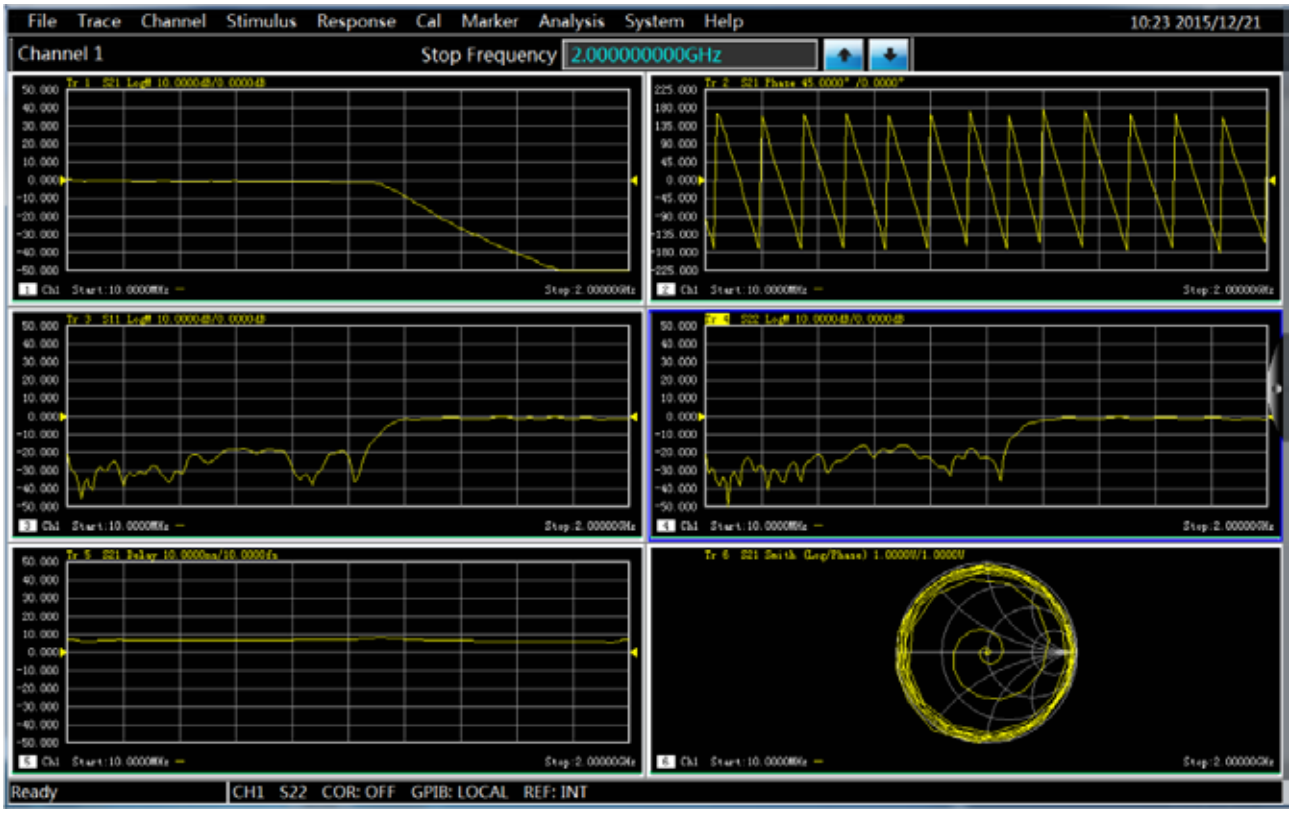
Flexible and optional calibration types, compatible with multiple calibration kits

3672 Series of Vector Network Analyzers provide multiple calibration types, including guided calibration (automatic calibration), unguided calibration (using mechanical calibration kit to conduct through response calibration, through response & isolation calibration, single port calibration, enhanced response calibration, full two-port SOLT calibration, TRL calibration) and electronic calibration (E-Cal) etc. Users can select calibration kits, such as coaxial 3.5mm calibration kit and electronic calibration kit based on test requirements, which greatly facilitates testing on devices with different interfaces.



Multiple Windows to Display all Measuring Channels

The analyzers possess functions of multi-channel and multi-window display, support up to 64 channels. Maximum 16 measuring windows can be simultaneously displayed, and each window can simultaneously display up to 8 test traces, which makes the observation results more visible and the operation more convenient.

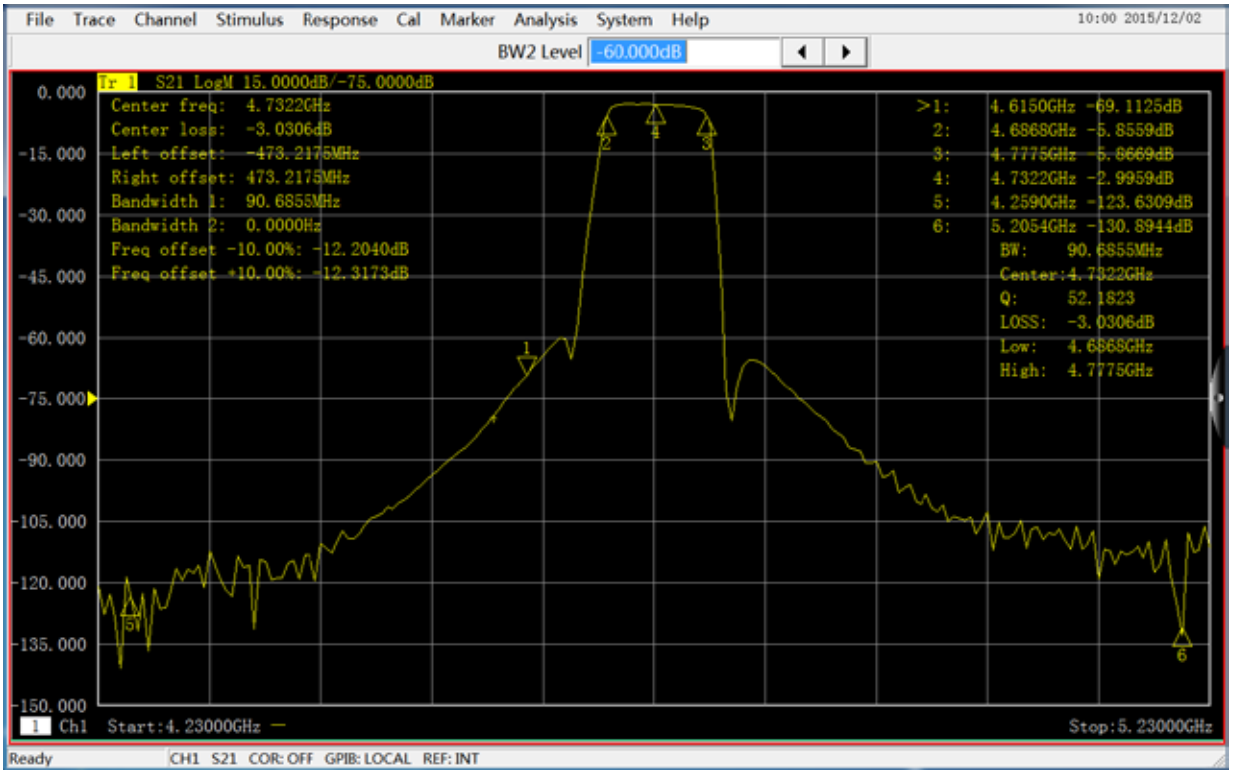


12.1-inch High-resolution Touch Screen

The 12.1-inch touch screen with 1280*800 resolution has bright and comfortable color, which can make your operation very convenient.

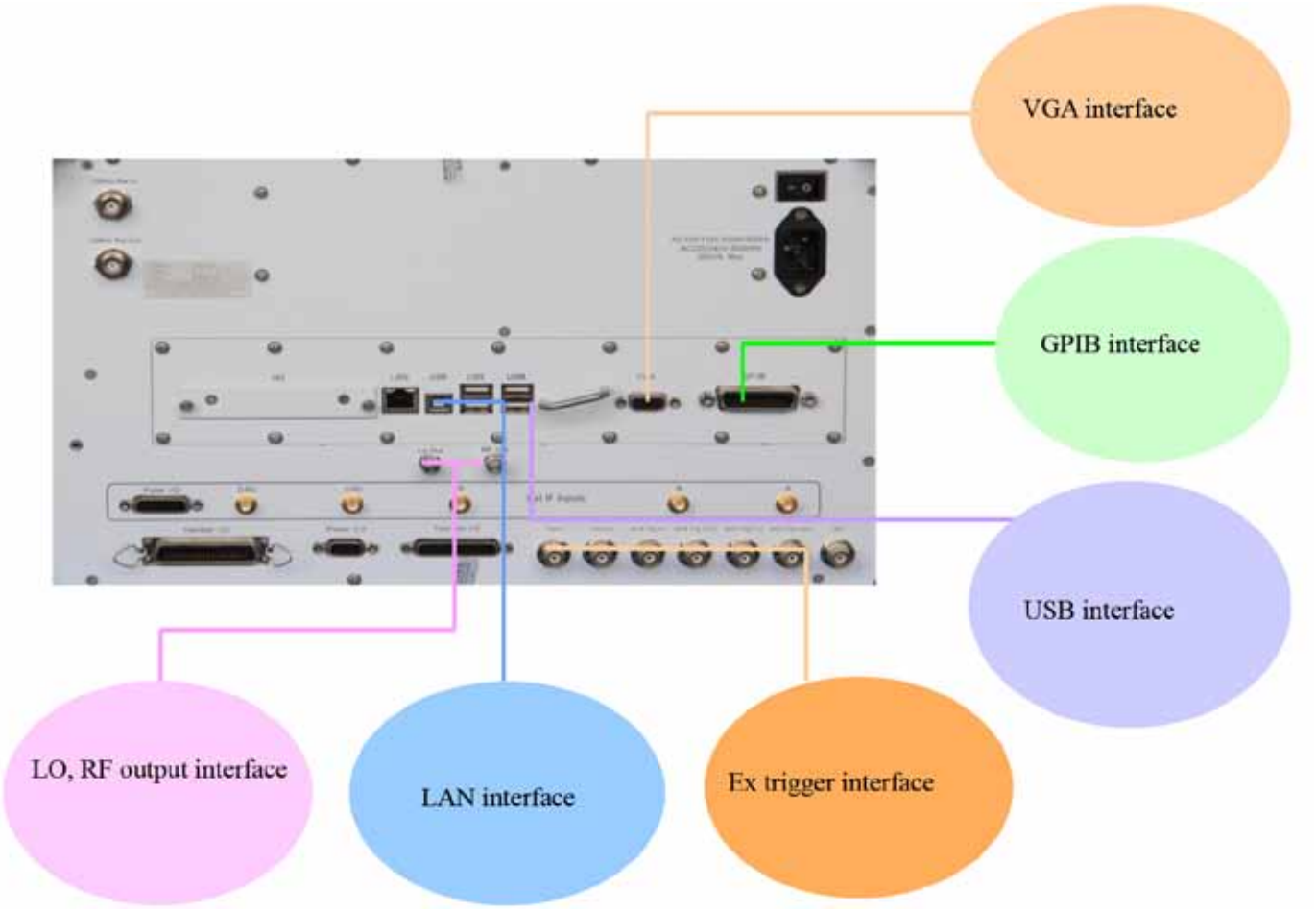
Large Dynamic Range

3672 Series of Vector Network Analyzers are designed with the concept of mixer receiving, which effectively extends the dynamic range of the complete machine and meets the test demand for large dynamic range.



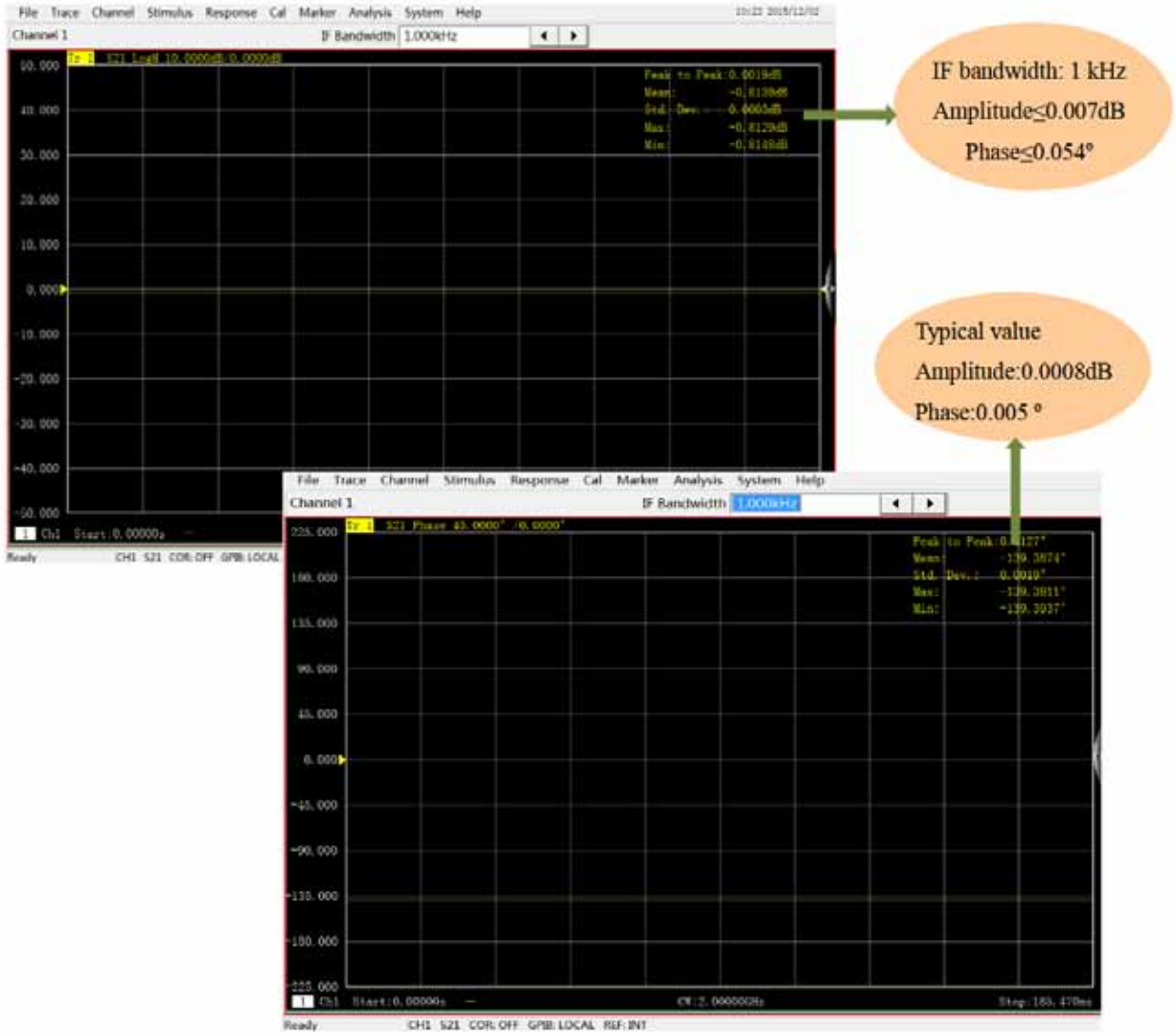
Abundant Peripheral Interfaces, Flexible and Practical

Adopting the software & hardware platform consisting of embedded computer module compatible with PC and Windows operation system, 3672 Series of Vector Network Analyzers realize the perfect combination of the instrument and PC. Users can use the rich I/O interfaces (including GPIB, USB, and LAN etc.) to complete the optimum selection of data communication.



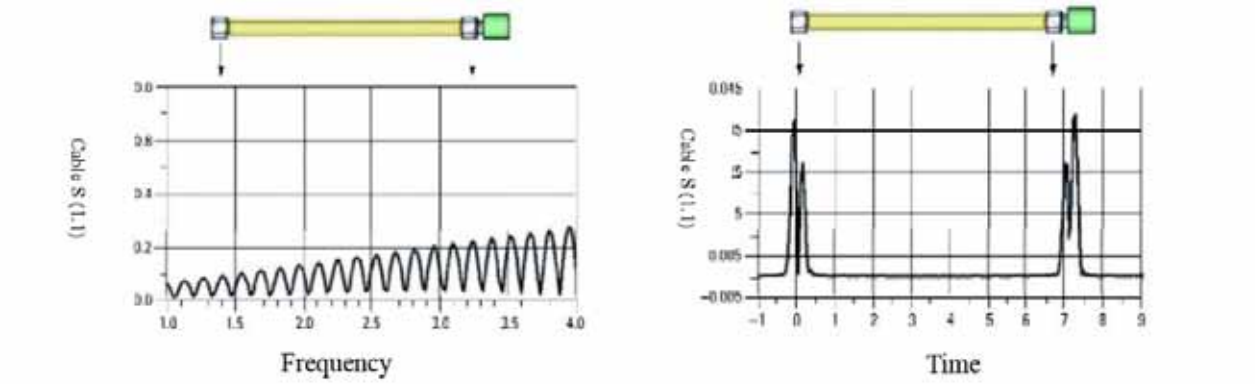
Low Trace Noise, High Test Accuracy

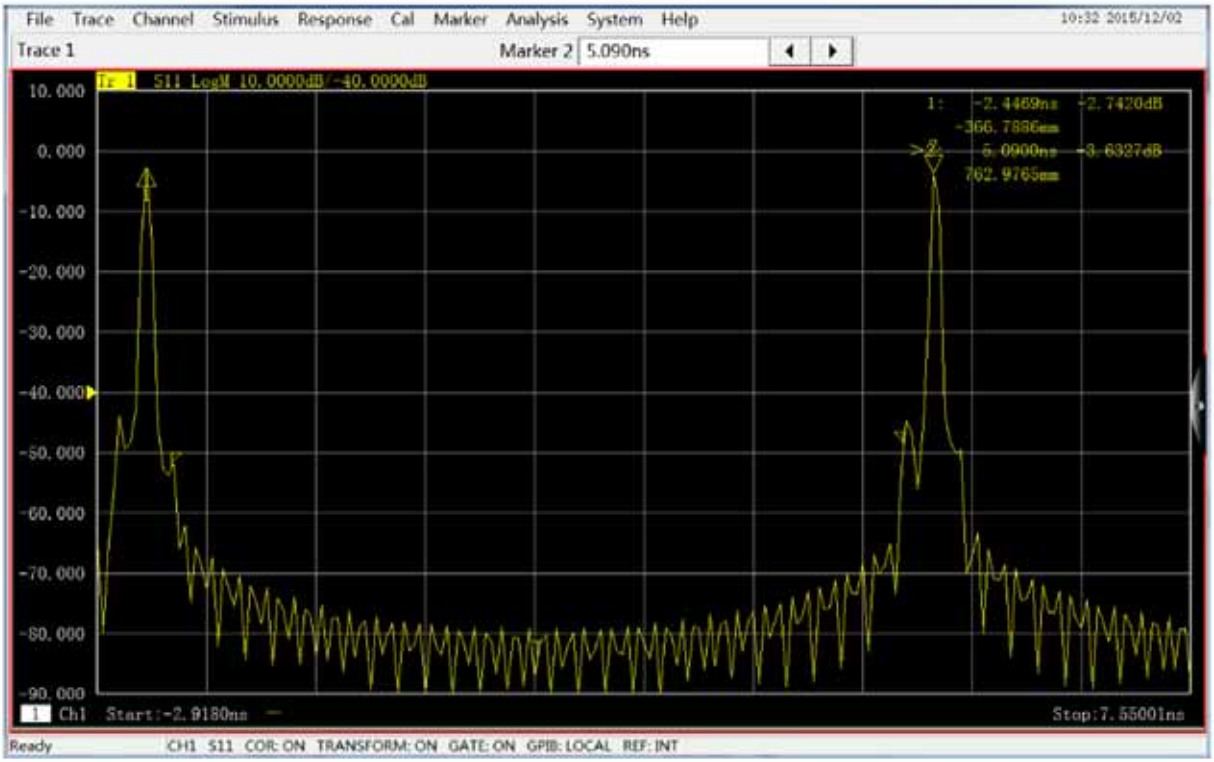
The excellent performance of 3672 Series of Vector Network Analyzers in trace noise highly improves the test accuracy so as to meet users' demand for accurate measurement, and it is especially helpful for the accurate measurement of devices with low insertion loss. (3672B is taken as an example below.)



Time-domain Analysis Comprehensively Characterizes the Design

With time-domain options, 3672 Series of Vector Network Analyzers can realize the switching of measurement results between frequency-domain and time-domain, which can be used to identify the discontinuous points of devices, fixtures or cables to realize accurate fault location.

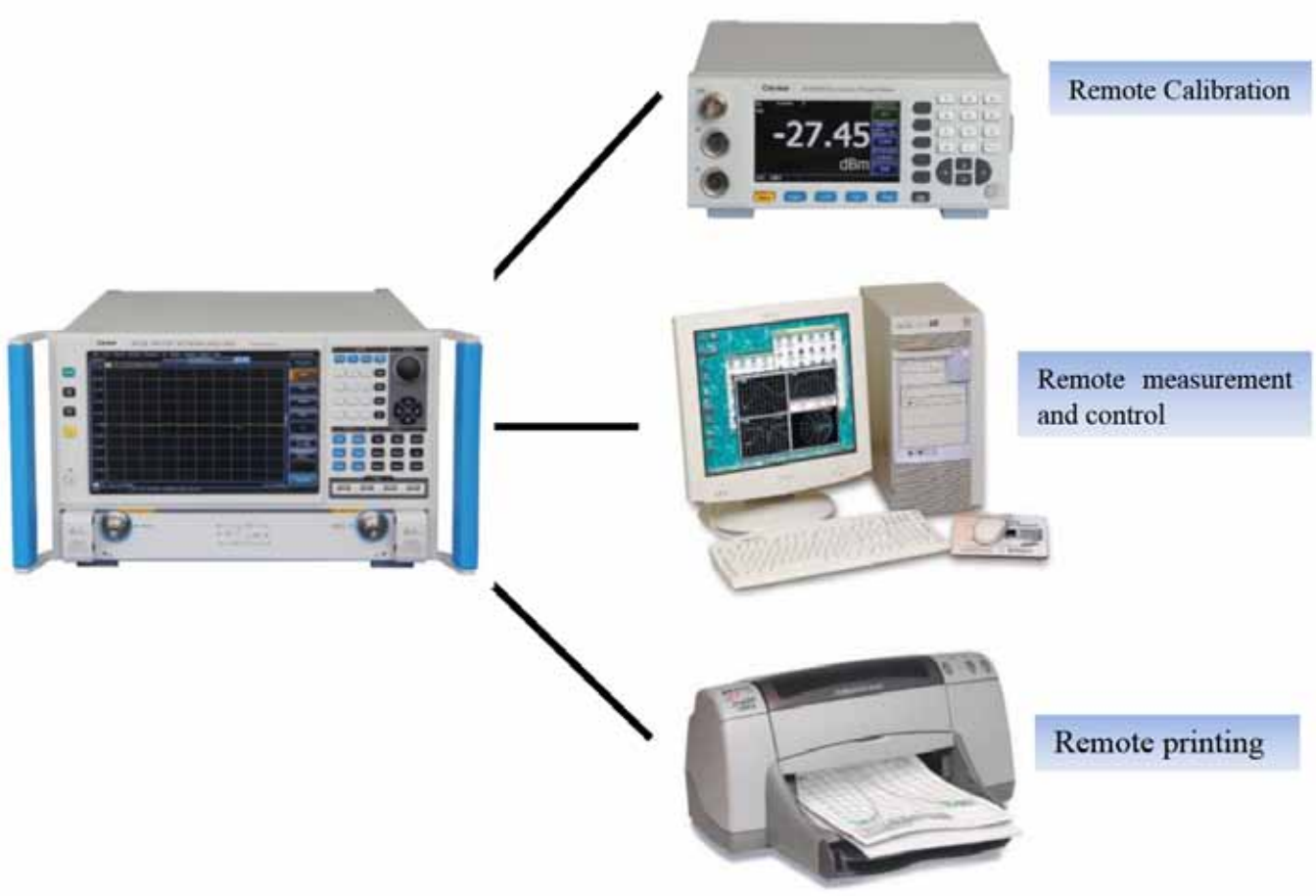




Automatic Test

3672 Series of Vector Network Analyzers can provide you integrated automatic test solutions including automatic calibration, automatic measurement, automatic reading and automatic printing.

Flexible and multiple control modes are provided through GPIB, LAN, and USB interfaces. All you need to do is to finish the interconnection of equipment and send the command.



3672A/B

Frequency Characteristic			
Frequency Range		10MHz~13.5/26.5GHz	
Frequency Resolution		1Hz	
Frequency Accuracy		±1×10-7(23°C±3°C)	
Port Harmonic Suppression			Typical Value
Harmonic Suppression on Port 1 and 3		-48dBc(0.01~4GHz) -57dBc (4~13.5GHz) -57dBc (13.5~26.5GHz)	-51dBc (0.01~4GHz) -60dBc (4~13.5GHz) -60dBc (13.5~26.5GHz)
Harmonic Suppression on Port 2 and 4		-13dBc (0.01~4GHz) -18dBc (4~13.5GHz) -18dBc (13.5~26.5GHz)	-13dBc (0.01~4GHz) -21dBc (4~13.5GHz) -21dBc (13.5~26.5GHz)
Port Power Characteristic			Typical Value
Power Sweep Range		33dB (10~500MHz) 30dB (0.5~4GHz) 34dB (4~7GHz) 31dB (7~13.5GHz) 29dB (13.5~20GHz) 25dB (20~26.5GHz)	42dB (10~500MHz) 37dB (0.5~4GHz) 42dB (4~7GHz) 41dB (7~13.5GHz) 38dB (13.5~20GHz) 35dB (20~26.5GHz)
Max. Output Power (Standard Configuration, Option 400)	Port 1, 3	0dBm (0.01~4GHz) (Filter Mode) +9dBm (10~50MHz) (High Power Mode) +6dBm (0.05~4GHz) (High Power Mode) +12dBm (4~7GHz) +8dBm (7~13.5GHz) +6dBm (13.5~20GHz) +4dBm (20~26.5GHz)	+16dBm (10~50MHz) (High Power Mode +11dBm (0.05~4GHz) (High Power Mode) +16dBm(4~7GHz) +14dBm(7~13.5GHz) +11dBm(13.5~20GHz) +9dBm(20~26.5GHz)
	Port 2, 4	+13dBm (10~50MHz) +13dBm (0.05~4GHz) +10dBm (4~7GHz) +9dBm (7~13.5GHz) +6dBm (13.5~20GHz) +2dBm (20~26.5GHz)	+16dBm (10~50MHz) +16dBm (0.05~4GHz) +16dBm (4~7GHz) +15dBm (7~13.5GHz) +13dBm (13.5~20GHz) +8dBm (20~26.5GHz)

3672A/B

Max. Output Power (Option 201, 401, 402)	Port 1, 3	-1dBm (0.01~4GHz) (Filter Mode) +8dBm (10~50MHz) (High Power Mode) +5dBm (0.05~4GHz) (High Power Mode) +10dBm (4~7GHz) +6dBm (7~13.5GHz) +4dBm (13.5~20GHz) +2dBm (20~26.5GHz)	+15dBm (10~50MHz) (High Power Mode) +10dBm (0.05~4GHz) (High Power Mode) +15dBm (4~7GHz) +13dBm (7~13.5GHz) +10dBm (13.5~20GHz) +8dBm (20~26.5GHz)
	Port 2, 4	+12dBm (10~50MHz) +12dBm (0.05~4GHz) +9dBm (4~7GHz) +8dBm (7~13.5GHz) +5dBm (13.5~20GHz) 0dBm (20~26.5GHz)	+15dBm (10~50MHz) +15dBm (0.05~4GHz) +15dBm (4~7GHz) +14dBm (7~13.5GHz) +12dBm (13.5~20GHz) +7dBm (20~26.5GHz)
1dB Compression Level		/	+13dBm
Pulse Characteristic			Typical Value
Pulse Width Setting Range		33ns~60s	20ns~60s
Pulse Transition Time (10%-90%)		30ns	20ns
Pulse On/Off Ratio		64dB (0.01~4GHz) 80dB (4~26.5GHz)	
Network Parameter Characteristic			Typical Value
System Dynamic Range		90dB (0.01~1GHz) 120dB (1~4GHz) 127dB (4~10GHz) 120dB (10~20GHz) 115dB (20~24GHz) 110dB (24~26.5GHz)	100dB (0.01~1GHz) 128dB (1~4GHz) 135dB 84~10GHz) 132dB (10~20GHz) 129dB 820~24GHz) 125dB (24~26.5GHz)
Effective Directivity		48dB (0.01~2GHz) 44dB (2~26.5GHz)	60dB (0.01~2GHz9 53dB (2~26.5GHz)
Effective Source Match		40dB (0.01~2GHz) 30dB (2~26.5GHz)	46dB (0.01~2GHz) 36dB (2~26.5GHz)
Effective Load Match		48dB (0.01~2GHz) 44dB (2~26.5GHz)	60dB (0.01~2GHz) 51dB (2~26.5GHz)
Reflection Tracking		±0.04dB (0.01~2GHz) ±0.05dB (2~26.5GHz)	±0.010dB (2~26.5GHz) ±0.004dB (0.01~2GHz)
Transmission Tracking		±0.10dB (0.01~2GHz) ±0.12dB (2~26.5GHz)	±0.005dB (0.01~2GHz) ±0.015dB (2~26.5GHz)

3672A/B

Others		Typical Value
Amplitude Trace Noise dB rms (1kHz If Bandwidth)	0.0500 (10~50MHz) 0.0070 (50~500MHz) 0.0020 (0.5~13.5GHz) 0.0030 (13.5~20GHz) 0.0050 (20~26.5GHz)	0.0020 (10~50MHz) 0.0008 (50~500MHz) 0.0009 (0.05~13.5GHz) 0.0008 (13.5~20GHz) 0.0010 (20~26.5GHz)
Phase Trace Noise deg rms (1kHz IF Bandwidth)	0.200 (10~50MHz) 0.051 (50~500MHz) 0.042 (0.5~13.5GHz) 0.054 (13.5~20GHz) 0.054 (20~26.5GHz)	0.020 (10~50MHz9 0.006 (50~500MHz) 0.006 (0.05~13.5GHz9 0.006 (13.5~20GHz) 0.012 (20~26.5GHz)
IF Bandwidth	1Hz~5MHz	
Amplitude Display Resolution	0.001dB/div	
Phase Display Resolution	0.01°/div	
Setting Requirement of Reference Level Amplitude	-500~+500dB	
Setting Requirement of Reference Level Phase	-500~+500°	
General Characteristic		
Port Connectors	3.5mm (Male), 50 ohm system impedance	
Number of Measuring Ports	3672A/B Standard configuration: 2 Ports; 3672A/B-400 Option: 4 Ports	
Peripheral Interface	USB, GPIB, VGA, LAN	
Operating System	Windows 7	
Display	12.1-Inch High Resolution Touch Screen	
Size	WxHxD=426mm×266mm×550mm (excl. support and handle) WxHxD=516mm×280mm×640mm (incl. handle, support and back foot)	
Max. Power Consumption	400w	
Max. Weight	42kg	

3672C/D

Frequency Characteristic			
Frequency Range		10MHz~43.5/50GHz	
Frequency Resolution		1Hz	
Frequency Accuracy		±1×10-7 (23°C±3°C)	
Port Harmonic Suppression			Typical Value
Harmonic Suppression on Port 1 and 3		-48dBc (0.01~4GHz) -57dBc (4~13.5GHz) -57dBc (13.5~50GHz)	-51dBc (0.01~4GHz) -60dBc (4~13.5GHz) -60dBc (13.5~50GHz)
Harmonic Suppression on Port 2 and 4		-13dBc (0.01~4GHz) -18dBc (4~13.5GHz) -57dBc (13.5~50GHz)	-13dBc (0.01~4GHz) -21dBc (4~13.5GHz) -60dBc (13.5~50GHz)
Port Power Characteristic			Typical Value
Power Sweep Range		32dB (10~50MHz) 29dB (0.05~4GHz) 28dB (4~13.5GHz) 30dB (13.5~40GHz) 27dB (40~47GHz) 15dB (47~50GHz)	41dB (10~500MHz) 40dB (0.5~4GHz) 36dB (4~13.5GHz) 38dB (13.5~40GHz) 36dB (40~47GHz) 23dB (47~50GHz)
Max. Output Power (Standard Configuration, Option 400)	Port 1, 3	-1dBm (10~50MHz) (Filter Mode) 0dBm (0.05~4GHz) (Filter Mode) +8dBm (10~50MHz) (High Power Mode) +5dBm(0.05~4GHz) (High Power Mode) +5dBm (4~13.5GHz) +7dBm (13.5~40GHz) +5dBm (40~47GHz) -7dBm (47~50GHz)	+13dBm (10~50MHz) (High Power Mode) +9dBm (0.05~4GHz) (High Power Mode) +10dBm (4~13.5GHz) +13dBm (13.5~40GHz) +10dBm (40~47GHz) 0dBm (47~50GHz)
	Port 2, 4	+11dBm (10~50MHz) +9dBm (0.05~4GHz) +6dBm (4~13.5GHz) +7dBm (13.5~40GHz) +5dBm (40~47GHz) -7dBm (47~50GHz)	+16dBm (10~50MHz) +15dBm (0.05~4GHz) +13dBm (4~13.5GHz) +12dBm (13.5~40GHz) +9dBm (40~47GHz) -1dBm (47~50GHz)

3672C/D

Max. Output Power (Option 201, 401, 402)	Port 1, 3	-2dBm (10~50MHz) (Filter Mode) -1dBm (0.05~4GHz) (Filter Mode) +7dBm (10~50MHz) (High Power Mode) +4dBm (0.05~4GHz) (High Power Mode) +3dBm (4~13.5GHz) +5dBm (13.5~40GHz) +2dBm (40~47GHz) -10dBm (47~50GHz)	+12dBm (10~50MHz) (High Power Mode) +8dBm (0.05~4GHz) (High Power Mode) +9dBm (4~13.5GHz) +12dBm (13.5~40GHz) +9dBm (40~47GHz) -1dBm (47~50GHz)
	Port 2, 4	+10dBm (10~50MHz) +8dBm (0.05~4GHz) +4dBm (4~13.5GHz) +5dBm (13.5~40GHz) +2dBm (40~47GHz) -10dBm (47~50GHz)	+15dBm (10~50MHz) +14dBm (0.05~4GHz) +12dBm (4~13.5GHz) +11dBm (13.5~40GHz) +8dBm (40~47GHz) -2dBm (47~50GHz)
1dB Compression Level		/	+10dBm
Pulse Characteristic			Typical Value
Pulse Width Setting Range		33ns~60s	20ns~60s
Pulse Transition Time (10%-90%)		30ns	20ns
Pulse On/Off Ratio		64dB (0.01~4GHz) 80dB (4~40GHz) 80dB (40~50GHz)	
Network Parameter Characteristics			Typical Value
System Dynamic Range		74dB (0.01~1GHz) 119dB (1~13.5GHz) 115dB (13.5~26.5GHz) 110dB (26.5~35GHz) 105dB (35~47GHz) 90dB (47~50GHz)	105dB (0.01~1GHz) 133dB (1~13.5GHz) 126dB (13.5~26.5GHz) 120dB (26.5~35GHz) 116dB (35~47GHz) 103dB (47~50GHz)
Effective Directivity		42dB (0.01~13.5GHz) 38dB (13.5~40GHz) 36dB (40~50GHz)	50dB (0.01~13.5GHz) 45dB (13.5~40GHz) 42dB (40~50GHz)
Effective Source Match		36dB (0.01~2GHz) 31dB (2~13.5GHz) 28dB (13.5~40GHz) 27dB (40~50GHz)	43dB (0.01~2GHz) 34dB (2~13.5GHz) 33dB (13.5~40GHz) 33dB (40~50GHz)
Effective Load Match		42dB (0.01~13.5GHz) 37dB (13.5~40GHz) 35dB (40~50GHz)	60dB (0.01~13.5GHz) 56dB (13.5~40GHz) 51dB (40~50GHz)

3672C/D

Reflection Tracking	±0.04dB (0.01~13.5GHz) ±0.03dB (13.5~40GHz) ±0.04dB (40~50GHz)	±0.010dB (0.01~13.5GHz) ±0.010dB (13.5~40GHz) ±0.020dB (40~50GHz)
Transmission Tracking	±0.1dB (0.01~13.5GHz) ±0.16dB (13.5~40GHz) ±0.20dB (40~50GHz)	±0.012dB (0.01~13.5GHz) ±0.015dB (13.5~40GHz) ±0.020dB (40~50GHz)
Others		Typical Value
Amplitude Trace Noise dB rms (1kHz IF Bandwidth)	0.050 (10~50MHz) 0.020 (50~500MHz) 0.005 (0.5~13.5GHz) 0.004 (13.5~26.5GHz) 0.008 (26.5~50GHz)	0.0060 (10~50MHz) 0.0020 (50~500MHz) 0.0010 (0.5~13.5GHz) 0.0009 (13.5~26.5GHz) 0.0040 (26.5~50GHz)
Phase Trace Noise deg rms (1kHz IF Bandwidth)	0.900 (10~50MHz) 0.700 (50~500MHz) 0.040 (0.5~13.5GHz) 0.050 (13.5~26.5GHz) 0.060 (26.5~50GHz)	0.040 (10~50MHz) 0.010 (50~500MHz) 0.005 (0.5~13.5GHz) 0.020 (13.5~26.5GHz) 0.030 (26.5~50GHz)
IF Bandwidth	1Hz~5MHz	
Amplitude Display Resolution	0.001dB/div	
Phase Display Resolution	0.01°/div	
Setting Requirement of Reference Level Amplitude	-500~+500dB	
Setting Requirement of Reference Level Phase	-500~+500°	
General Characteristic		
Port Connectors	2.4mm (Male), 50 ohm system impedance	
Number of Measuring Ports	3672C/D Standard configuration: 2 ports, 3672C/D-400 Option: 4 ports	
Peripheral Interface	USB, GPIB, VGA, LAN	
Operating System	Windows 7	
Display	12.1-Inch High Resolution Touch Screen	
Size	WxHxD=426mm×266mm×600mm (excl. support and handle) WxHxD=516mm×280mm×690mm (incl. handle, support, back foot)	
Max. Power Consumption	500w	
Max. Weight	47kg	

3672E

Frequency Characteristics			
Frequency Range		10MHz~67GHz	
Frequency Resolution		1Hz	
Frequency Accuracy		±1×10-7 (23°C±3°C)	
Port Harmonic Suppression			Typical Value
Harmonic Suppression on Port 1 and 3		-48dBc (0.01~4GHz) -57dBc (4~67GHz)	-51dBc (0.01~4GHz) -60dBc (4~67GHz)
Harmonic Suppression on Port 2 and 4		-13dBc (0.01~4GHz) -18dBc (4~13.5GHz) -57dBc (13.5~67GHz)	-13dBc (0.01~4GHz) -21dBc (4~13.5GHz) -60dBc (13.5~67GHz)
Port Power Characteristics			Typical Value
Power Sweep Range		32dB (10~50MHz) 29dB (0.05~4GHz) 28dB (4~26.5GHz) 29dB (26.5~35GHz) 26dB (35~40GHz) 25dB (40~67GHz)	42dB (10~500MHz) 38dB (0.5~4GHz) 36dB (4~26.5GHz) 35dB (26.5~35GHz) 34dB (35~40GHz) 32dB (40~67GHz)
Max. Output Power (standard configuration, option 400)	Port 1, 3	-1dBm (10~50MHz) (Filter mode) 0dBm (0.05~4GHz) (Filter mode) +8dBm (10~50MHz) (High power mode) +5dBm(0.05~4GHz) (High power mode) +1dBm (4~13.5GHz) +5dBm (13.5~26.5GHz) +3dBm (26.5~40GHz) +5dBm (40~67GHz)	+16dBm (10~50MHz) (High power mode) +10dBm (0.05~4GHz) (High power mode) +9dBm (4~13.5GHz) +11dBm (13.5~26.5GHz) +10dBm (26.5~40GHz) +9dBm (40~67GHz)
	Port 2, 4	+8dBm (10~50MHz) +5dBm (0.05~4GHz) +1dBm (4~13.5GHz) +5dBm (13.5~26.5GHz) +3dBm (26.5~40GHz) +5dBm (40~67GHz)	+16dBm (10~50MHz) +15dBm (0.05~4GHz) +10dBm (4~13.5GHz) +11dBm (13.5~26.5GHz) +9dBm (26.5~40GHz) +8dBm (40~67GHz)

3672E

Max. Output Power (option 201, 401, 402)	Port 1, 3	-2dBm (10~50MHz) (Filter Mode) -1dBm (0.05~4GHz) (Filter Mode) +7dBm (10~50MHz) (High Power Mode) +4dBm (0.05~4GHz) (High Power Mode) -2dBm (4~13.5GHz) +3dBm (13.5~26.5GHz) 0dBm (26.5~67GHz)	+15dBm (10~50MHz) (High Power Mode) +9dBm (0.05~4GHz) (High Power Mode) +6dBm (4~13.5GHz) +7dBm (13.5~26.5GHz) +4dBm (26.5~67GHz)
	Port 2, 4	+7dBm (10~50MHz) +4dBm (0.05~4GHz) -2dBm (4~13.5GHz) +3dBm (13.5~26.5GHz) 0dBm (26.5~67GHz)	+15dBm (10~50MHz) +14dBm (0.05~4GHz) +9dBm (4~13.5GHz) +10dBm (13.5~26.5GHz) +5dBm (26.5~67GHz)
1dB Compression Level		/	+10dBm
Pulse Characteristics			Typical Value
Pulse Width Setting Range		33ns~60s	20ns~60s
Pulse Transition Time (10%-90%)		30ns	20ns
Pulse on/off Ratio		64dB (0.01~4GHz)	
80dB (4~67GHz)			
Network Parameter Characteristic			Typical Value
System Dynamic Range		74dB (0.01~1GHz) 100dB (1~4GHz) 120dB (4~10GHz) 112dB (10~26.5GHz) 108dB (26.5~35GHz) 105dB (35~50GHz) 100dB (50~67GHz)	100dB (0.01~1GHz) 125dB (1~4GHz) 125dB (4~10GHz) 120dB (10~26.5GHz) 115dB (26.5~35GHz) 112dB (35~50GHz) 105dB (50~67GHz)
Effective Directivity		35dB (0.01~2GHz) 41dB (2~13.5GHz) 34dB (13.5~40GHz) 32dB (40~67GHz)	50dB (0.01~2GHz) 50dB (2~13.5GHz) 50dB (13.5~40GHz) 42dB (40~67GHz)
Effective Load Match		35dB (0.01~2GHz) 41dB (2~13.5GHz) 33dB (13.5~40GHz) 30dB (40~67GHz)	60dB (0.01~2GHz) 50dB (2~13.5GHz) 50dB (13.5~40GHz) 45dB (40~67GHz)

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Reflection Tracking	±0.05dB (0.01~2GHz) ±0.06dB (2~13.5GHz) ±0.08dB (13.5~40GHz) ±0.10dB (40~67GHz)	±0.005dB (0.01~2GHz) ±0.005dB (2~13.5GHz) ±0.008dB (13.5~40GHz) ±0.010dB (40~67GHz)
Transmission Tracking	±0.10dB (0.01~2GHz) ±0.11dB (2~13.5GHz) ±0.16dB (13.5~40GHz) ±0.20dB (40~67GHz)	±0.005dB (0.01~2GHz) ±0.006dB (2~13.5GHz) ±0.015dB (13.5~40GHz) ±0.020dB (40~67GHz)
Others		Typical Value
Amplitude Trace Noise dB rms (1kHz IF bandwidth)	0.050 (10~50MHz) 0.020 (50~500MHz) 0.005 (0.5~13.5GHz) 0.004 (13.5~26.5GHz) 0.020 (26.5~67GHz)	0.0090 (10~50MHz) 0.0020 (50~500MHz) 0.0008 (0.5~13.5GHz) 0.0008 (13.5~26.5GHz) 0.0050 (26.5~67GHz)
Phase Trace Noise deg rms (1kHz IF bandwidth)	0.90 (10~50MHz) 0.70 (50~500MHz) 0.04 (0.5~13.5GHz) 0.05 (13.5~26.5GHz) 0.10 (26.5~67GHz)	0.010 (10~50MHz) 0.010 (50~500MHz) 0.006 (0.5~13.5GHz) 0.007 (13.5~26.5GHz) 0.030 (26.5~67GHz)
IF Bandwidth	1Hz~5MHz	
Amplitude Display Resolution	0.001dB/div	
Phase Display Resolution	0.01°/div	
Setting Requirement of Reference Level Amplitude	-500~+500dB	
Setting Requirement of Reference Level Phase	-500~+500°	
General Characteristics		
Port Connectors	1.85mm (Male), 50 ohm system impedance	
Number of measuring Ports	3672E Standard configuration:2 ports, 3672E-400 Option: 4 ports	
Peripheral Interface	USB, GPIB, VGA, LAN	
Operating System	Windows 7	
Display	12.1-Inch High Resolution Touch Screen	
Size	WxHxD=426mm×266mm×600mm (excl. support and handle) WxHxD=516mm×280mm×690mm (incl. handle, support and back foot)	
Max. Power Consumption	500W	
Max. Weight	50 kg	

Main Unit: 3672A Vector Network Analyzer (10MHZ ~ 13.5GHZ)

Main Unit: 3672B Vector Network Analyzer (10MHZ ~ 26.5GHZ)

Main Unit: 3672C Vector Network Analyzer (10MHZ ~ 40GHZ)

Main Unit: 3672D Vector Network Analyzer (10MHZ ~ 50GHZ)

Main Unit: 3672E Vector Network Analyzer (10MHZ ~ 67GHZ)

Standard Package

No.	Description	Remarks
1	Power Cord Assembly	Standard three-prong power cord
2	USB Keyboard/Mouse	
3	User Manual	
4	Certificate of Conformity	
5	Aluminum Alloy Box	

3672A

Model	Description	Remarks
3672A-201	2-Port Programmable Step Attenuator	Set two 70dB programmable step attenuators for the source path, and two 35dB programmable step attenuators for the receiver path
3672A-400	4-Port Measurement	Two-source stimulus four-port VNA configuration
3672A-401	4-Port Programmable Step Attenuator	Set four 70dB programmable step attenuators for the source path, and four 35dB programmable step attenuators for the receiver path (Option 400 is needed)
3672A-402	Active Inter-modulation Measurement	For inter-modulation signal measurement of amplifier (Option 400 is needed)
3672A-006	English Options	Key, Front Panel, Label, Operation System
3672A-008	Pulse Measurement	For pulse S-parameter measurement
3672A-S10	Time Domain Measurement	For time-domain test, can locate and analyze the discontinuous positions in devices, fixtures or cables.
3672A-S80	Frequency Offset Measurement	For frequency offset measurement. millimeter-wave frequency extension main unit needs this option
3672A-S82	Mixer Scalar Measurement	For the scalar parameter measurement of mixers (Option 400 is needed)
3672A-S83	Mixer Vector Measurement	For the vector parameter measurement of mixers (Option 400 is needed)
3672A-S84	Embedded LO Frequency Converter Measurement	For the measurement of embedded LO frequency converters (Option 400, S82 or S83 are needed)
3672A-S86	Gain Compression Two-Dimension Sweep Measurement	For the gain compression two-dimension sweep test of amplifier
31121	3.5mm Calibration Kit	For calibration of the analyzer
FBOHAOHB025.0	3.5mm Test cable	For measurement of the analyzer
FBOHAOHC025.0	3.5mm Test cable	For measurement of the analyzer
20403	E-Cal Kit	For calibration of the analyzer (10MHz-26.5GHz, 2 ports)
20405	E-Cal Kit	For calibration of the analyzer (10MHz-20GHZ, 4 ports)
87232	Usb Power Probe	For 402, S82, S86 Options in the process of power calibration (50MHz-26.5GHZ)

3672B

Model	Description	Remarks
3672B-201	2-Port Programmable Step Attenuator	Set Two 70dB programmable step attenuators for the source path, and two 35dB programmable step attenuators for the receiver path
3672B-400	4-Port Measurement	Two-source stimulus four-port VNA configuration
3672B-401	4-Port Programmable Step Attenuator	Set four 70dB programmable step attenuators for the source path, and four 35dB programmable step attenuators for the receiver path (Option 400 is needed)
3672B-402	Active Inter-modulation Measurement	For inter-modulation signal measurement of amplifier (Option 400 is needed)
3672B-006	English Options	Key, Front Panel, Label, Operation System
3672B-008	Pulse Measurement	For pulse S-parameter measurement
3672B-S10	Time Domain Measurement	For time-domain test, can locate and analyze the discontinuous positions in devices, fixtures or cables.
3672B-S80	Frequency Offset Measurement	For frequency offset measurement. millimeter-wave frequency extension main unit needs this option
3672B-S82	Mixer Scalar Measurement	For the scalar parameter measurement of mixers (Option 400 is needed)
3672B-S83	Mixer Vector Measurement	For the vector parameter measurement of mixers (Option 400 is needed)
3672B-S84	Embedded LO Frequency Converter Measurement	For the measurement of embedded LO frequency converters (Option 400, S82 or S83 are needed)
3672B-S86	Gain Compression Two-Dimension Sweep Measurement	For the gain compression two-dimension sweep test of amplifier
31121	3.5mm Calibration Kit	For calibration of the analyzer
FBOHAOHB025.0	3.5mm Test cable	For measurement of the analyzer
FBOHAOHC025.0	3.5mm Test cable	For measurement of the analyzer
20403	E-Cal Kit	For calibration of the analyzer (10MHZ-26.5GHZ, 2 ports)
20405	E-Cal Kit	For calibration of the analyzer (10MHZ-20GHZ, 4 ports)
87232	USB Power Probe	For 402, S82, S86 Options in the process of power calibration (50MHZ-26.5GHZ)

3672C

Model	Description	Remarks
3672C-201	2-Port Programmable Step Attenuator	Set two 60dB programmable step attenuators for the source path, and two 35dB programmable step attenuators for the receiver path
3672C-400	4-Port Measurement	Two-source stimulus four-port VNA configuration
3672C-401	4-Port Programmable Step Attenuator	Set four 60dB programmable step attenuators for the source path, and four 35dB programmable step attenuators for the receiver path (Option 400 is needed)
3672C-402	Active Inter-modulation Measurement	For inter-modulation signal measurement of amplifier (Option 400 is needed)
3672C-006	English Options	Key, Front Panel, Label, Operation System
3672C-008	Pulse Measurement	For pulse S-parameter measurement
3672C-S10	Time Domain Measurement	For time-domain test, can locate and analyze the discontinuous positions in devices, fixtures or cables.
3672C-S80	Frequency Offset Measurement	For frequency offset measurement. millimeter-wave frequency extension main unit needs this option
3672B-S82	Mixer Scalar Measurement	For the scalar parameter measurement of mixers (Option 400 is needed)
3672B-S83	Mixer Vector Measurement	For the vector parameter measurement of mixers (Option 400 is needed)
3672B-S84	Embedded LO Frequency Converter Measurement	For the measurement of embedded LO frequency converters (Option 400, S82 or S83 are needed)
3672C-S86	Gain Compression Two-Dimension Sweep Measurement	For the gain compression two-dimension sweep test of amplifier
31123	2.4mm Calibration Kit	For calibration of the analyzer
FEOBNOBM025.0	2.4mm Test cable	For measurement of the analyzer
FEOBNOBL025.0	2.4mm Test cable	For measurement of the analyzer
20404	E-Cal Kit	For calibration of the analyzer (10MHz-50GHz 2 ports)
87233	USB Power Probe	For 402, S82, S86 Options in the process of power calibration (50MHz-40GHz)

3672D

Model	Description	Remarks
3672D-201	2-Port Programmable Step Attenuator	Set two 60dB programmable step attenuators for the source path, and two 35dB programmable step attenuators for the receiver path
3672D-400	4-Port Measurement	Two-source stimulus four-port VNA configuration
3672D-401	4-Port Programmable Step Attenuator	Set four 60dB programmable step attenuators for the source path, and four 35dB programmable step attenuators for the receiver path (Option 400 is needed)
3672D-006	English Options	Key, Front Panel, Label, Operation System
3672D-008	Pulse Measurement	For pulse S-parameter measurement
3672D-S10	Time Domain Measurement	For time-domain test, can locate and analyze the discontinuous positions in devices, fixtures or cables.
3672D-S80	Frequency Offset Measurement	For frequency offset measurement. millimeter-wave frequency extension main unit needs this option
3672B-S82	Mixer Scalar Measurement	For the scalar parameter measurement of mixers (Option 400 is needed)
3672B-S83	Mixer Vector Measurement	For the vector parameter measurement of mixers (Option 400 is needed)
3672B-S84	Embedded LO Frequency Converter Measurement	For the measurement of embedded LO frequency converters (Option 400, S82 or S83 are needed)
3672D-S86	Gain Compression Two-Dimension Sweep Measurement	For the gain compression two-dimension sweep test of amplifier
31123A	2.4mm Calibration Kit	For calibration of the analyzer
FEOBNOBM025.0	2.4mm Test cable	For measurement of the analyzer
FEOBNOBL025.0	2.4mm Test cable	For measurement of the analyzer
20404	E-Cal Kit	For calibration of the analyzer (10MHZ-50GHZ 2 ports)

3672E

Model	Description	Remarks
3672E-201	2-Port Programmable Step Attenuator	Set two 50dB programmable step attenuators for the source path, and two 50dB programmable step attenuators for the receiver path
3672E-400	4-Port Measurement	Two-source stimulus four-port VNA configuration
3672E-401	4-Port Programmable Step Attenuator	Set four 50dB programmable step attenuators for the source path, and four 50dB programmable step attenuators for the receiver path (Option 400 is needed)
3672E-402	Active Inter-modulation Measurement	For inter-modulation signal measurement of amplifier (Option 400 is needed)
3672E-006	English Options	Key, Front Panel, Label, Operation System
3672E-008	Pulse Measurement	For pulse S-parameter measurement
3672E-S10	Time-Domain Measurement	For time-domain test, can locate and analyze the discontinuous positions in devices, fixtures or cables.
3672E-S80	Frequency Offset Measurement	For frequency offset measurement. millimeter-wave frequency extension main unit needs this option
3672E-S82	Mixer Scalar Measurement	For the scalar parameter measurement of mixers (Option 400 is needed)
3672E-S83	Mixer Vector Measurement	For the vector parameter measurement of mixers (Option 400 is needed)
3672E-S84	Embedded LO Frequency Converter Measurement	For the measurement of embedded LO frequency converters (Option 400, S82 or S83 are needed)
3672E-S86	Gain Compression Two-Dimension Sweep Measurement	For the gain compression two-dimension sweep test of amplifier
31128	1.85mm Calibration Kit	For calibration of the analyzer
N4697F/ FFOCNOCM025.0 FFOCNOCL025.0	1.85mm Test cable	For measurement of the analyzer
20409	E-Cal Kit	For calibration of the analyzer (10MHZ-67GHZ, 2 ports)