

# Wireless Charger Automatic Test System

9901

DC-DC <150W | 4 Channel



Automatic Testing Equipment

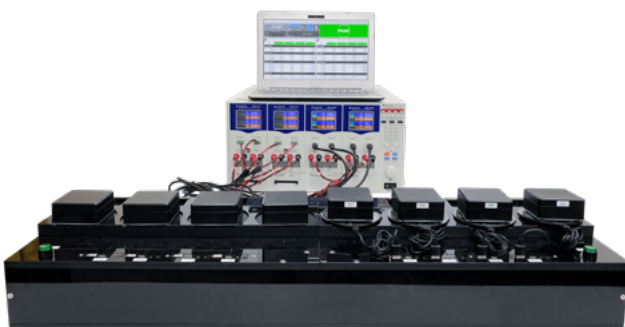
## Application

Test of wireless charger final products/ wireless charging modules

The MICROTTEST 9901 is a high performance, cost-effective wireless charging test system designed for rapid deployment on production lines. It provides an intuitive, easy to use interface for comprehensive testing of wireless charging modules and finished products up to 150W. Featuring up to 4-channel simultaneous testing and compatible with dual-switching test fixtures, this system significantly boosts throughput and inspection efficiency. The system supports major fast charging protocols, including PD and QC, and integrates critical Foreign Object Detection (FOD) capabilities. Its extensive test suite covers input/output characteristics and protection mechanisms. With dedicated PC software for remote programming and data logging, the MICROTTEST 9901 is the premier choice for modern wireless charging manufacturing.

## Features

- Support 4 test channels
- Equipped with double switching test fixture to switch left and right for highly efficient tests
- Support PD 2.0, QC 2.0/3.0 protocols
- Support FOD test (foreign object detection)
- Suitable for DC-DC power supply product test (power 150W)
- Provide statistical analysis report function
- Provide a variety of expansion cards to quickly upgrade to more test functions



Standard Interfaces

RS-232

USB Device

## Test items

### Output features

- Output no-load voltage test
- Output load voltage test
- Output load current test
- Efficiency test
- Output load power test
- Output fast charging test

### Input features

- Charging voltage test
- Charging current test
- No-load standby power consumption test
- Input fast charging voltage
- Input fast charging current
- Input fast charging power test

### Protection tests

- Output short-circuit protection and recovery test
- Output over-current protection and recovery test
- Input over-voltage protection test
- Input under-voltage protection test
- FOD test

### Special tests/Special functions

- Displacement test
- Barcode scanning

## Specification

### 9901 Wireless Charger Automatic Test System

#### Power Supply on Transmitting Side (Tx)

DC Source	Measuring Range-Voltage	0~30V
	Voltage Accuracy	±(0.1% of setting +20mV)
	Voltage Resolution	0.01V
	Measuring Range-Current	0~5A
	Current Accuracy	±(0.1% of setting +20mA)
	Current Resolution	0.001A
	QC Protocol-Programmable	Compliant to QC 2.0, 3.0 protocols
	PD Protocol-Programmable	Compliant to PD 2.0 protocol
Power Supply Ripples	30mVp-p	

#### Loads on Receiving Side (Rx)

DC Load	Measuring Range-Voltage	0~80V
	Voltage Accuracy	±(0.025%+0.025%FS)
	Voltage Resolution	0.02V
	Measuring Range-Current	0~20A
	Current Accuracy	0.05%+0.05%FS
	Current Resolution	High range: 0.005A, Low range: 0.0005A
	Power	150W
	Test Modes	CC/CV/CR/CP

#### Wireless Charger Test Items

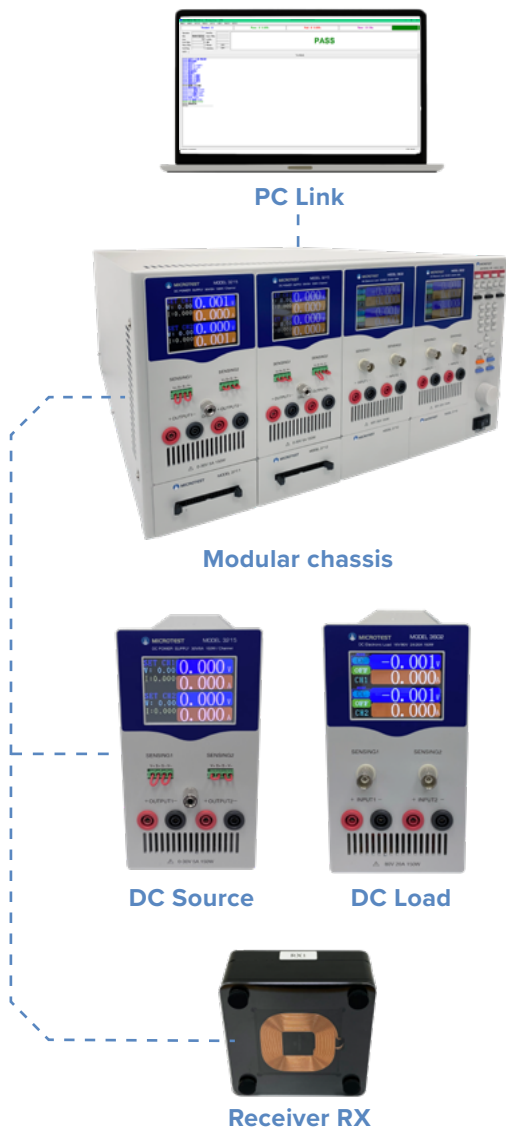
Displacement sensing test of wireless charger	Induced power test on receiving side when applying load on receiving side
Foreign object detection test (FOD)	Efficiency test of wireless charger
Voltage test of wireless charger	Fast charging voltage test of the receiver
Current test of wireless charger	Output short-circuit test and recovery test of wireless charger
Power test of wireless charger	Output over-current test and recovery test of wireless charger
Standby power test of wireless charger	Input over-voltage protection test of wireless charger
Voltage/Current/Power tests for the protocols of wireless charger	Input under-voltage protection test of wireless charger
Induced voltage test on receiving side when applying load on receiving side	Barcode function
Induced current test on receiving side when applying load on receiving side	Connect to MES system

## General

Storage	PC	
Interface	RS-232, USB Device	
PC Link Software	●	
Operating System	Win 10	
Power Consumption	800VA (Max.)	
Power Supply	Voltage: 90~264Vac	Frequency: 50/60Hz ±5%
Environment	Temperature: 0°C~40°C	Humidity: 20~80%RH
Dimension (W*H*D)	432x234.6x533mm	
Weight	31 Kg	

# Functions

## System configurations



9901 Wireless Charger Automatic Test System (4 channel)			
Programmable DC Power Supply	3215	2 sets	Power: 150W, Voltage: 0~30V, Current: 0~5A
Programmable DC Electronic Load	3602	2 sets	Power: 150W, Voltage: 0~80V, Current: 0~20A With CC/ CV/ CR/ CP modes
Industrial Computer/ NB	Option	1 set	Select based on customer's needs
Modular Chassis for Instruments	3600	1 piece	Height: 5U
Test Software	PT960F	1 set	Dedicated software for wireless charger products automatic testing
Function Expansion Card	3711	1 piece	Function expansion for QC/ PD and other protocols
Control Card	3712	1 piece	Indicators for fixture, FOD test
Test Fixtures	Customized	1 piece	Test fixtures for wireless charging modules/ wireless chargers
System Cabinet/ Desktop	9901/3600	1 set	Including power supply jack and related communication cables

## Ordering Information

Wireless Charger Automatic Test System	Standard	Optional
<ul style="list-style-type: none"> <li>9901 Wireless Charger Automatic Test System</li> </ul>	<ul style="list-style-type: none"> <li>TL-WI0001 Test Cable-Red (100cm)</li> <li>TL-WI0002 Test Cable-Black (100cm)</li> <li>TL-000009 BNC TO BNC Cable (100cm)</li> <li>TL-000010 Single Ended BNC Cable (100cm)</li> <li>Power Cord</li> </ul>	<ul style="list-style-type: none"> <li>3711 Function Expansion Card</li> <li>3712 Control Card</li> <li>FB-WI0001 Wireless Charging Receiver (Rx)</li> <li>TL-WI0003 Cable-40 PIN (70cm)</li> <li>TL-000014 D-Sub Cable-25M TO 25M (180cm)</li> <li>TL-000003 RS-232 Cable (180cm)</li> <li>PC Link Software</li> </ul>

# Fixture & Accessories

**TL-WI0001**  
Test Cable



**TL-WI0002**  
Test Cable



**TL-000009**  
Cable



Applicable Models	9901	9901	9901
Accessory Description	Red   100cm	Black   100cm	100cm   BNC TO BNC Cable

**TL-000010**  
Single Ended BNC Cable



**3711**  
Expansion Card



**3712**  
Control Card



Applicable Models	9901	9901	9901
Accessory Description	100cm	Function Expansion Card	Control Card

**FB-WI0001**  
Receiver



**TL-WI0003**  
Cable



**TL-000014**  
D-Sub Cable



Applicable Models	9901	9901	9901
Accessory Description	Wireless Charging Receiver (Rx)	70cm   40 PIN	180cm   25M TO 25M

**TL-000003**  
RS-232 Cable



Applicable Models	9901
Accessory Description	180cm