



## TC-5953A W-LAN Shield Box

### Application

TC-5953A W-LAN Shield Box is a pneumatic control RF test fixture that provides RF isolation and reliable signal connections necessary for testing various types of Wireless LAN devices in a test system. With the extensive list of standard accessories, TC-5953A offers an excellent value for the test needs of production line, R&D, service and QA.



### Features

- Reliable High RF shielding up to 5GHz owing to simple up-down lid motion
- Pneumatic control of lid open-close and optional automatic test fixture motions
- IEEE 802.11a/b/g
- Applicable to CardBus/PCMCIA, mini PCI, LAN devices.
- Built-in Bridge for reliable data cable extension
- Built-in Hot Swap Capability for mini PCI device
- DC power Jack for using external DC power
- EMI filters on all data ports and power line
- Modular I/O design for possible customization of data and RF connection
- Fixture control air outputs for custom test fixture
- Red and Green LED for the Pass/Fail indication
- Dual pressure control and Lid Down Sensor for safety
- CE compliant : EN 292-1:1991, EN 292-2:1991/A1:1995, EN 983:1996, EN 1050:1996, EN 60204-1:1997

### Specification

- **Shielding effectiveness** : > 55 dB at 2.4GHz, > 50 dB at 5.8GHz
- **Input air pressure** : 5bar to 10bar
- **Main air connector** : 6mm OD hose, one-touch push-on fitting
- **Fixture control air connectors** : 4mm OD hose, one-touch push-on fitting
- **Line voltage** : 100 to 240 volt AC, 50/60 Hz, 16 watt max
- **Working space**: 280(W) x 150(D) x 95(H) mm
- **Dimension** : 342(W) x 239(D) x 262(H) mm, lid closed. 410(H) mm, lid open
- **Weight without optional test fixture** : 14 kg
- **Accessories Supplied** :



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TC-5953A W-LAN Shield Box Data Sheet

- 3806-0001, CBC S/W Driver (1x 3.5" diskette)
- 4003-0001, DB9(s) to DB9(s) RS-232C Cable, 2m, 1pc.
- 4003-0004, DB9(p) to DB9(s) Cable, 1m, 1pc.
- 4008-0006, RJ-45 to RJ-45 Cables, 30cm, 1pc.
- 4008-0007, RJ-45 to RJ-45 Cables, 2m, 1pc.
- 4009-0012, RJ-45 to USB A(p) Cables, 1m, 1pc.
- 4009-0013, RJ-45 to USB A(s) Cables, 20cm, 1pc.
- 4011-0004, N(m) to SMA(m) Cable, 1m, 1pc.
- 4104-0013, External DC Power Cable, 1.5m, 1pc.
- E99110D, 100pin to CardBus Adaptor, 1pc.
- E99117G, 100pin to mini PCI Adaptor, 1pc.
- E99120A, PCI to 100pin Adaptor, for right side motherboard, 1pc.
- E99120B, PCI to 100pin Adaptor, for left side motherboard, 1pc.
- Power Cable, 1pc., Hand Valve, 1pc., Lid Stopper, 1pc., Safety Shield, 1pc.

## Lid Characteristics

- **Long Life Up-Down design**
- **Lid Speed Control Valve**
- **Dual Pressure** : Lid closes without air pressure
- **Lid Down Sensor** : Lid opens if the lid doesn't close fully within 2 sec
- **Initial Lid Position** : Lid opens when the air is connected regardless of AC power
- **Internal Electronic Cycle Counter** (downloadable to PC thru RS-232C)

## Electrical I/O

### User Data I/O Connectors

- DB9(p) outside, DB9(s) inside, 100pF Pi filter
- 100-pin Shielded Flat Cable, for CardBus or Mini PCI
- RJ-45 outside and inside, 10pF Pi filter
- DC power jack, for external DC power

### RF connectors

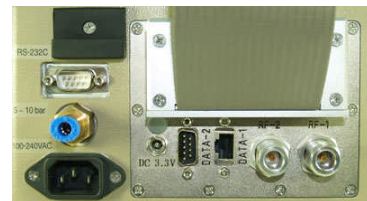
- 2 N(f) outside and SMA(f) inside

### Remote Control Connector

- RS-232C : DB9(p), 3wire

### AC Line input

- IEC Type, Detachable





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## Fixture customization

TC-5953A system with a custom fixture F59431A allows automation of most of the test processes. The fixture holds the device, brings it inside the shield box, makes test signal connections, completes the test, and returns the device to the starting position. Once the device is manually loaded on the DUT cradle and the serial number scanned, the rest of the test procedures can be automated. The custom fixture option, F59431A and F59531A may be ordered by supplying the necessary device information and samples to help design and perform verification of the fixture. Typically, every device has unique shape and electrical connections requiring mechanical and electrical customizations from its basic platform design.

## Ordering Information

**TC-5953A**, W-LAN Shield Box

**5952-80**, Spare gasket Assy, set of 2 pcs

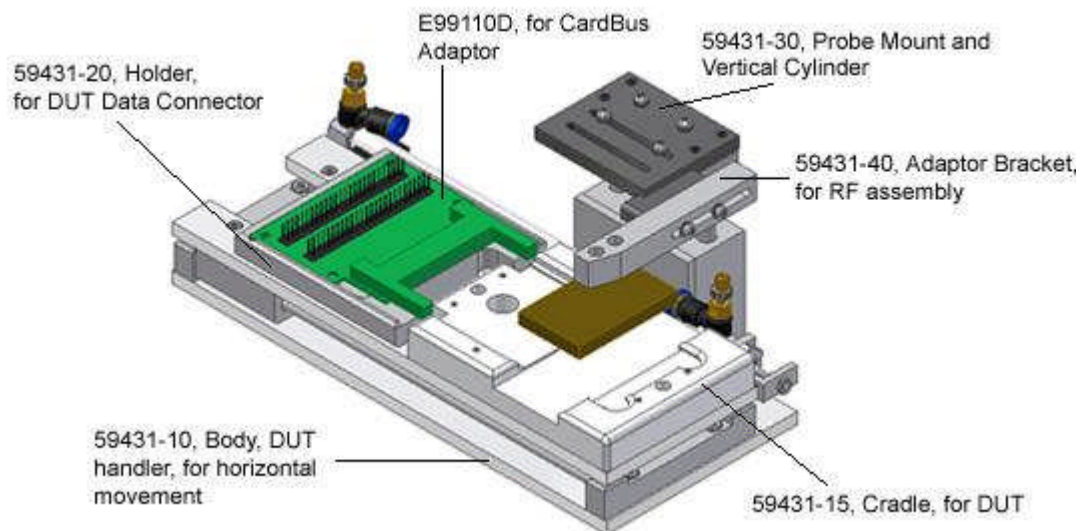
**E99117G**, for Mini PCI Adaptor

**E99110D**, for CardBus Adaptor

**F59431A-MMM-XXXX-YY**, CardBus Fixture, for 5953A

**F59531A-MMM-XXXX-YY**, Mini PCI Fixture, for 5953A

MMM-XXXX-YY is a unique fixture code that will be given by Tescom



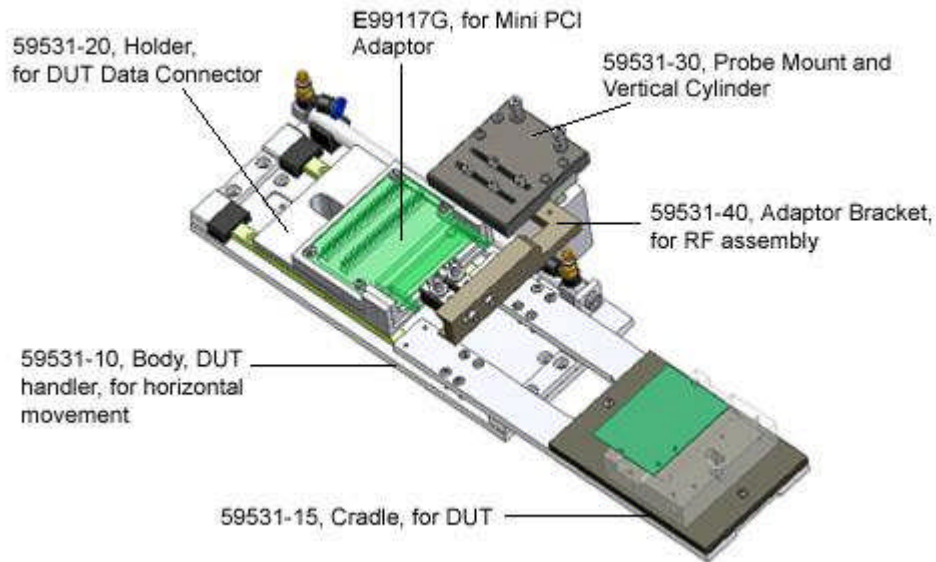
**View of F59431A Fixture**



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**View of F59531A Fixture**

Korean Design Patent #240189  
Taiwan Patent Pending #92131882

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE