



USB Test Hosts for Manufacturing Product Development Quality Assurance

RPM Systems Corporation's Root 2 USB test hosts are design specifically for manufacturing test, development and QA testing of USB peripherals and hubs.

Root 2 supports USB 1.1 and USB 2.0 Low Speed, Full Speed and High Speed devices and EHCI USB traffic patterns. Root 2 provides both EIA-232 and Ethernet 10/100 control ports.

Root2 places all USB operations directly under the control of the test engineer, including:

- Vbus Voltage Level Control
- Vbus power on/off Control
- Vbus Current Measurement
- Suspend/Resume Control
- USB Reset Control

Root 2 provides a variety of special features including:

- RootScript Scripting Capability
- Automatic Mode operation
- Stand-alone Operation
- Field Replaceable USB connectors
- Rugged Anodized Aluminum Enclosures
- Two external trigger inputs
- 8-bit general purpose triggered output port



Root Testers in Manufacturing: Fast. Reliable. Repeatable.

Root testers are fast. A basic USB functional test takes less than 1/2 second.

Root testers are reliable, built to survive in a manufacturing environment, accommodating tens of thousands of test cycles without operator intervention. In manufacturing test, device insertions can measure in the millions of cycles. Root testers provide field replaceable Series A connectors which can be hot-swapped in seconds.

Root tester performance is repeatable, ensuring that each device is subjected to the same precise set of test conditions.

Root Testers in Development: Take Control of the USB

Root testers provide the control to allow you to verify each discrete function of your product design, precluding weeks of trial-and-error debugging. Then you can approach your Windows or Mac O/S integration with a proven functional device.

Root Testers in Design Verification: Cover the Corners

Test your USB design on one, ten or a hundred PC hosts, and you haven't begun to explore the worst-case conditions your design could be expected to face in the real world. Root testers provide the unique capability to generate test conditions which seldom occur in normal operation. **Root testers verify that your design functions properly** across the full range of real-world USB conditions.



USB Test Hosts

Specifications

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USB Standards Supported USB 1.1
USB 2.0
Low Speed
Full Speed
High Speed

UHCI
OHCI
EHCI

Vbus Power Supply

Range Current Limiting 4.25 - 5.50V 750mA Max.

Vbus Current Measurement

Measurement Resolution Measurement Accuracy

2.96uA 1% +/- 50uA

0 - 750 mA

Control Port

■ EIA-232 ■ Ethernet 10/100

Advanced Features

- Automatic Mode
- On-demand Suspend/Resume
- Field Replaceable USB Connectors
- On-demand USB ResetRootScript Scripting
- External Trigger bus

Support Software

- TapRoot Graphical User Interface
- Function libraries for custom test applications

