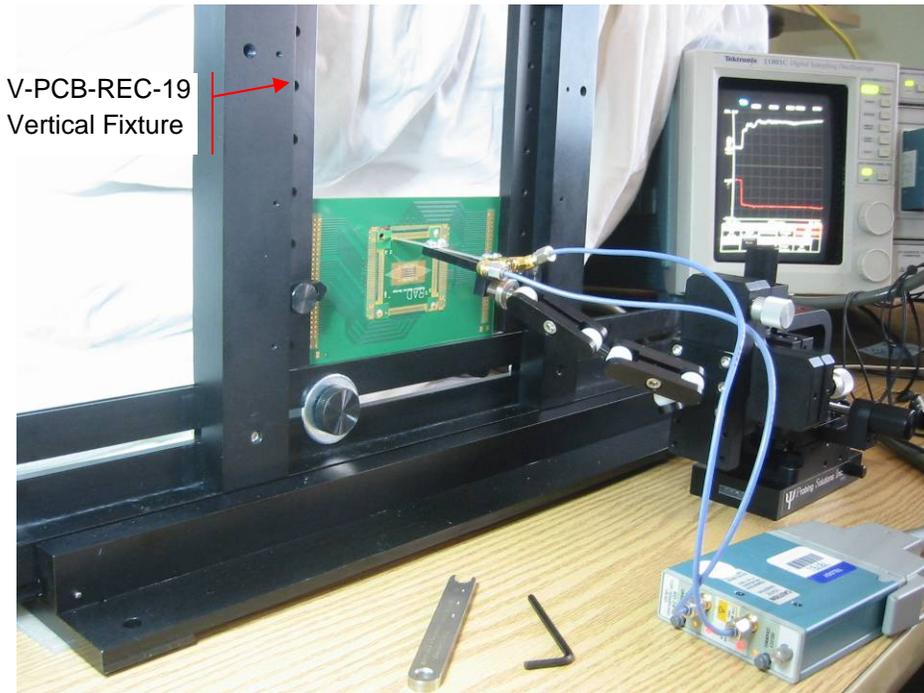


# Desk Top Vertical TDR/TDT Probing Techniques

## Using GigaProbes™



V-PCB-REC-19  
Vertical Fixture

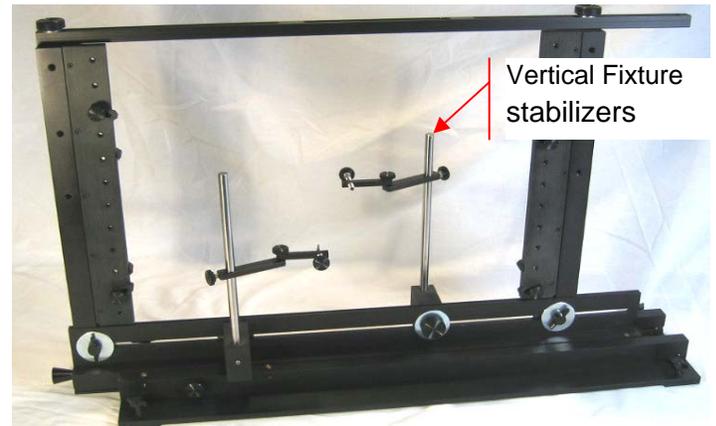
### Vertical PCB TDR Testing

Install the PCB into the Probing Solutions, Inc. V-PCB-REC-19 Vertical fixtures for front and back side hands free probing. Fixture hold 2x2" up 19x19" boards using non conductive tabs. Attach the GPMMA (GigaProbeManipulatorAdapter) to the end the GP Series Probe manipulators. Adjust its 12 axis flexible arm so the probes are co-planer to the DUT surface. Use the XYZ controls to move the probe onto place. Use sampling head extenders to place the sampling head close to the manipulator to reduce the cable strain and TDR rise time degradation.

For pricing and configuration support contact: [sales@gigaprobes.com](mailto:sales@gigaprobes.com)

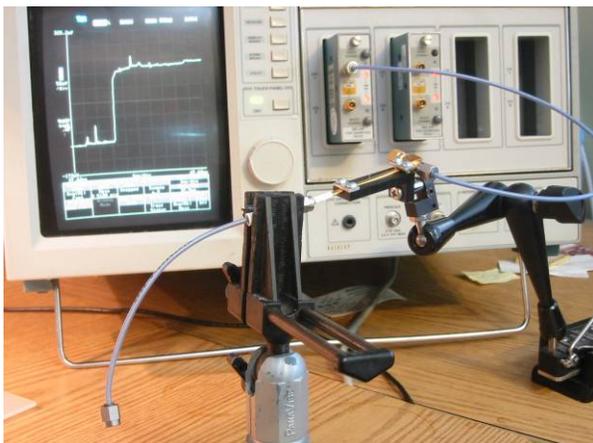


GP2-35-R-12AR-VM  
12 axis manipulator



Vertical Fixture  
stabilizers

**Left)** GP2-35-R-12AR-VM 12 axis manipulator probing PCB held in V-PCB-REC-19 Vertical fixture. **Top)** Front view of Vertical fixture that holds 2x2" to 19" PCB's which contain front and back side stabilizers, preventing PCB from flexing while probing.



### Cable Testing

Install the SMA Cable end in a general purpose vice. Attach the GPMMA to the end of the probe manipulator and install the GigaProbes™ to the fixture. Probe the SMA connector Signal pin and Ground to acquire the TDR waveform. Place a second probe on the opposite end to acquire the TDT waveform. The TDR/TDT waveforms can be converted to S-Parameters for Bandwidth testing.