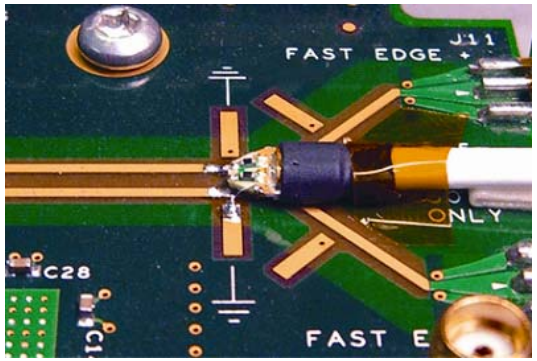
P7500 Series TriMode™ Probe

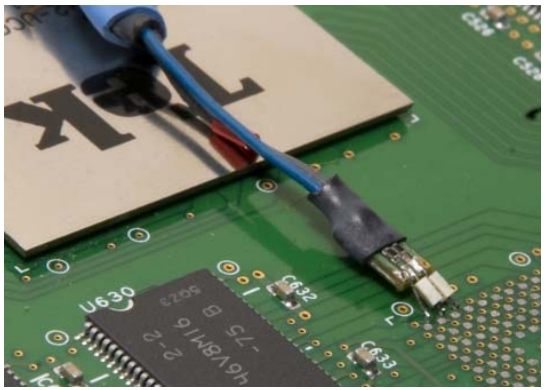
Innovative 3-in-1 Differential Probe

Product Fact Sheet



Features	Benefits
P7500 series stretches from 20 GHz to 4 GHz in 6 models supported by common accessories; 20 GHz model offers <18 ps risetime.	The P7500 series provides the customer the choice of performance and connectivity needed whether characterizing first silicon prototypes of general purpose digital design validation, debug and troubleshooting
TriMode™ architecture provides differential, single-ended and common mode measurements	Improve productivity with a single setup providing three measurements without adjusting probe tip connections
Wide range of connectivity accessories offering small form factor ultra performance 20 GHz solder down tip to low cost solder tips general purpose probing	Customers can now choose the price/performance and application combination that best meets their needs.
TekConnect® interface	Provides direct control from probe or oscilloscope menu.
Probing module with articulated joint and variable tip spacing for hand-held and fixtured probing	Allows precise probing of hard to reach fine pitch components

Precision connectivity for multiple signals in demanding applications



Bandwidth and fidelity for high speed probing.

Features

- Highest bandwidth available >20 GHz
- Excellent step response
- Low DUT loading
- High CMRR

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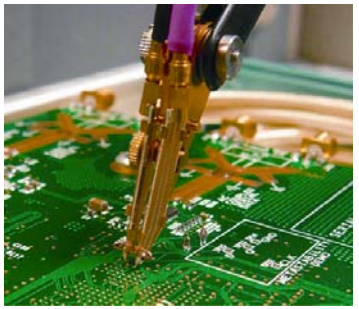
Key specifications and ordering information

Product Fact Sheet

Models	Bandwidth	Serial Data Rate at 5X	Rise Time (20 to 80%)	Differential Input Range (5x and 12.5x attenuation)	Noise
P7520	20 GHz	8 Gbps	<18 ps A-B mode; <20 ps other modes	±0.625 V (5x) ±1.60 V (12.5x)	<33 nV/√Hz (5x) <48 nV/√Hz (12.5x)
P7516	16 GHz	6.4 Gbps	<24 ps	±0.75 V (5x) ±1.75 V (12.5x)	
P7513A	13 GHz	5.2 Gbps	<30 ps		
P7508	8 GHz	3.2 Gbps	< 35 ps		
P7506	6 GHz	2.4 Gbps	< 50 ps		
P7504	4 GHz	1.6 Gbps	< 70 ps		



Recommended Accessories	
P75PDPM	Precision differential probing module
P75TC	P7500 tip cable pair (matched to 1 ps)
P75PMT	P75PDPM Probing Module replacement tips
020-2954-xx	Socket Tip Cable, square pin connector
020-2955-xx	TriMode Micro-coax Tip
020-2958-xx	High Temperature Tip
020-2960-xx	Extended Length Socket Cable and High
016-1999-xx	Small ground spring kit, 4 each
003-1897-xx	G3PO separator tool
003-1900-xx	Ground spring tool
020-2936-xx	Resistor solder tip
020-2944-xx	Extended resistor solder tip

Compatible Oscilloscopes/Recommended Probe	
DPO/DSA72004B	P7520
DPO/DSA71604B	P7516
DPO/DSA71254B	P7513
DPO/DSA70804B	P7508
DPO/DSA70604B	P7506
DPO/DSA70404B	P7504
80A03 DSA8200 Probe Interface	All P7500 series probes
RTPA2A RTSA Probe Interface	All P7500 series probes

Key Applications	Benefits
• Verification, debug and characterization of high speed serial designs	• Electrical performance provides bandwidth and fidelity
• Debug and compliance testing of serial data streams	• Architecture allows fast, reliable, and accurate measurements with single connection
• Compliance testing of serial standards	• Electrical performance ensures greater test margins; improving compliance test success ratio
• Mixed mode probing of high-speed serial communications systems	• Consistent measurement connectivity for a variety of signals types on a single test point

12/08 AR/WOW 51W-22409-2

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