

80A03



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The 80A03 TekConnect Probe Interface Module extends the capabilities of the DSA8300¹ oscilloscope and makes debugging today's high-performance electrical and optical designs a little easier. Using the 80A03 with the DSA8300 oscilloscope, design engineers can benefit from Tektronix industry-leading active and differential probes to measure signals on SMD pins and other challenging circuit features.

Key performance specs

- Enables probing up to 18 GHz using Tektronix active and differential probes

Key features

- Interfaces Tektronix P7000 Series high-performance active and differential probes to DSA8300 sampling scopes
- Allows easy probing of SMDs with the small head design of P7000 Series probes and numerous adapters and accessories
- Seamless integration
 - Automatically scales measurement for probe attenuation setting
 - Requires no user adjustments
 - Powered through the oscilloscope interface – requires no external power cord
- Integrated extender cable plugs into any of the four electrical sampling module slots

Applications

- Communications (Ethernet, Fibre Channel, InfiniBand)
- Semiconductor characterization and Validation (PCI-Express, Serial ATA, USB, DDR)
- High-speed digital systems design
- Component design/characterization
- Manufacturing engineering and test

Probe interface module

The 80A03 plugs into any of the four electrical sampling module slots on the DSA8300 and provides probe power and control for up to two Tektronix P7000 Series probes. The seamless integration enables the DSA8300 oscilloscope to automatically adjust its scale factor to match the probe. The 80A03 is powered through the oscilloscope and requires no user adjustments or external power cords. The integrated extender cable places the probe near the circuit for easier probing without stretching the cables. An electrical sampling module is plugged directly into the slot on the 80A03 to provide the optimum signal fidelity and a short electrical path.

Supported probes

The 80A03 supports the complete line of TekConnect probes including: P7500 Series TriMode probes (4 GHz to 20 GHz), and other TekConnect probes. For a complete list, see the "Recommended Probes" section below.

¹ The 80A03 also supports all legacy 8000 series sampling oscilloscopes, including the TDS/CSA8000, TDS/CSA8000B, and TDS/CSA/DSA8200.

Specifications

Nominal characteristics

Probe input connectors	TekConnect probe interface compatible with P7000 series probes
Signal output connector	SMA
Module slot	Compatible with Tektronix 80Exx modules
Impedance	50 Ω

Physical characteristics

Dimensions

Width	193 mm/ 7.6 in
Height	89 mm/ 3.5 in
Depth	198 mm/ 7.8 in
Cable length	914 mm/ 36 in
Weight	1.5 kg/ 3.4 lb

Ordering information

Models

80A03	TekConnect probe interface module Includes user manual and two SMA semi-rigid cables
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Service options

Opt. R3	Repair Service 3 Years (including warranty)
Opt. R5	Repair Service 5 Years (including warranty)
Opt. SILV400	Standard warranty extended to 5 years

Recommended probes

Recommended probes	P7225 2.5 GHz Active Probe
	P7240 4 GHz Active Probe
	P7260 6 GHz Active Probe
	P7330 3.5 GHz Differential Probe
	P7350 5 GHz Differential Probe
	P7340A 4 GHz Z-Active Differential Probe
	P7360A 6 GHz Z-Active Differential Probe
	P7380A 8 GHz Z-Active Differential Probe
	P7313 >12.5 GHz Z-Active Differential Probe
	P7313SMA 13 GHz Differential SMA Probe
	P7504 4 GHz TriMode Probe
	P7506 6 GHz TriMode Probe
	P7508 8 GHz TriMode Probe
	P7513A 13 GHz TriMode Probe
	P7516 16 GHz TriMode probe
	P7520A 20 GHz TriMode Probe

Not compatible with the following probes and adapters:	P7633
	P7630
	P7625
	TCA-1MEG
	TCA-BNC
	TCA-VPI150
	TCA292D
	TCA75

Legacy TekConnect probes	Unless otherwise excluded, legacy TekConnect probes are also supported by the RTPA2A.
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Certifications



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.

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Updated 10 April 2013

For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tektronix.com.

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22 Jul 2013

85W-16686-4

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