DSA8200 Series TekConnect® Probe Interface

80A03 Data Sheet

Features & Benefits

- Interfaces Tektronix P7000 Series High-performance Active and Differential Probes to DSA8200 Series Sampling Scopes
- Enables Probing up to 18 GHz using Tektronix Active and Differential Probes
- 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
- Upgradeable to Future Higher-bandwidth Active and Differential Probes

Applications

- Communications (Gigabit Ethernet, Fibre Channel, InfiniBand)
- Semiconductor Characterization and Validation (PCI-Express, Serial ATA, IEEE 1394, USB 2.0, RAMBUS, DDR)
- High-speed Digital Systems Design
- Component Design/Characterization
- Manufacturing Engineering and Test

Probe Interface Module for the DSA8200 Series Oscilloscope

The 80A03 TekConnect Probe Interface Module extends the capabilities of the DSA8200 Series oscilloscope and makes debugging today's high-performance electrical and optical designs a little easier. Using the 80A03 with the DSA8200 Series oscilloscope, design engineers can benefit from Tektronix industry-leading active and differential probes to measure signals on SMD pins and other challenging circuit features.

The 80A03 plugs into any of the four electrical sampling module slots on the DSA8200 and provides probe power and control for up to two Tektronix P7000 Series probes. The seamless integration enables the DSA8200 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.

Tektronix High-performance Probing Solutions

Tektronix offers a variety of industry-leading active and differential probes including the P7500 TriMode™ Probes. The P7500 TriMode function enables users to make common high-speed serial differential, single ended, and common mode measurements with a single probe and probe connection. Tektronix high-performance probes feature small probe heads and numerous adapters to provide a flexible and reliable connection to the Device Under Test (DUT).

The 80A03 supports the complete line of TekConnect probes including:

P7500 Series – 4 GHz to 20 GHz TriMode probes.

P7313SMA – 13 GHz active differential probe with SMA inputs.

P7380SMA – 8 GHz active differential probe with SMA inputs.

P7300 Series – P7300 Series 3.5 GHz to 13 GHz differential probes.

P7200 Series – P7200 Series 2.5 GHz and 4 GHz active probes.

Tektronix®

Characteristics

Probe Input Connectors – TekConnect probe interface compatible with P7000 Series probes.
Signal Output Connectors – SMA.
Module Slot – Compatible with Tektronix 80Exx modules.
Input/Output Impedance – 50 Ω.

Physical Characteristics

Dimensions	mm	in.
Width	193	7.6
Height	89	3.5
Depth	198	7.8
Cable Length	914	36
Weight	**kg**	**lb.**
Net	1.5	3.4

Ordering Information

80A03

TekConnect Probe Interface Module.
Includes: User manual, 2 × SMA semi-rigid jumper cables.

Service Options

Opt. R3 – Repair Service 3 Years.
Opt. R5 – Repair Service 5 Years.

Recommended Probes

P7500 Series – 4 GHz to 20 GHz TriMode probes.
P7313SMA – 13 GHz active differential probe with SMA inputs.
P7380SMA – 8 GHz active differential probe with SMA inputs.
P7300 Series – P7300 Series 3.5 GHz to 13 GHz differential probes.
P7200 Series – P7200 Series 2.5 GHz and 4 GHz active probes.

CE

ISO 9001 Product(s) are manufactured in ISO registered facilities.

Contact Tektronix:

ASEAN / Australasia (65) 6356 3900
Austria +41 52 675 3777
Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Belgium 07 81 60166
Brazil +55 (11) 3759-7627
Canada 1 (800) 661-5625
Central East Europe, Ukraine, and the Baltics +41 52 675 3777
Central Europe & Greece +41 52 675 3777
Denmark +45 80 88 1401
Finland +41 52 675 3777
France +33 (0) 1 69 86 81 81
Germany +49 (221) 94 77 400
Hong Kong (852) 2585-6688
India (91) 80-42922600
Italy +39 (02) 25086 1
Japan 81 (3) 6714-3010
Luxembourg +44 (0) 1344 392400
Mexico, Central/South America & Caribbean 52 (55) 54247900
Middle East, Asia, and North Africa +41 52 675 3777
The Netherlands 090 02 021797
Norway 800 16098
People's Republic of China 86 (10) 6235 1230
Poland +41 52 675 3777
Portugal 80 08 12370
Republic of Korea 82 (2) 6917-5000
Russia & CIS +7 (495) 7484900
South Africa +27 11 206 8360
Spain (+34) 901 988 054
Sweden 020 08 80371
Switzerland +41 52 675 3777
Taiwan 886 (2) 2722-9622
United Kingdom & Ireland +44 (0) 1344 392400
USA 1 (800) 426-2200

For other areas contact Tektronix, Inc at: 1 (503) 627-7111

Updated 5 August 2009

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**

Copyright © Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks, or registered trademarks of their respective companies.

14 Aug 2009 85W-16686-1

Tektronix®