8000 Series TekConnect® Probe Interface

80A03 Datasheet

Features & Benefits

- Interfaces Tektronix P7000 Series High-performance Active and Differential Probes to DSA8300[1] 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 DSA8300[1] Oscilloscope

The 80A03 TekConnect Probe Interface Module extends the capabilities of the DSA8300[1] oscilloscope and makes debugging today's high-performance electrical and optical designs a little easier. Using the 80A03 with the DSA8300[1] 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 DSA8300[1] and provides probe power and control for up to two Tektronix P7000 Series probes. The seamless integration enables the DSA8300[1] 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.

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

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.
Opt. SILV400 – Standard Warranty Extended to 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.

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

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