

KEYSIGHT TECHNOLOGIES (AGILENT HP)

34945A

The Keysight 34945A is a microwave switch/attenuator driver module designed for the 34980A Multifunction Switch/Measure Unit. It provides the power and control signals required to drive external coaxial switches, attenuators, and waveguide switches, allowing users to build customized, high-performance microwave switching systems.

SPECIFICATIONS

General

Interfaces	34980A internal backplane, 9-pin D-sub connector (to extenders)
Display	None (status displayed via 34980A mainframe)
Interconnect Cable Type	Standard Category 5 (Cat5) or Category 6 (Cat6) cable

Physical

Power Supply	Powered by 34980A mainframe; onboard drive supply: 5 V, 12 V, 24 V, or external supply up to 30 V
Operating Temperature	0°C to 55°C °C
Dimensions (W×H×D)	Single-slot 34980A plug-in module mm
Mainframe Slot Usage	1 slot

System Compatibility

Compatible Mainframe	Keysight 34980A
Supported Extender Module	34945EXT
Supported External Switches	Keysight 8762/3/4/5 series, N1810/1/2 series
Supported Attenuators	Keysight 8494/5/6/7 series

Drive Capacity

Maximum Number of Extenders	8 (per 34945A master module)
Maximum Drive Channels	512 (with 8 34945EXT extenders)
Maximum Position Sensing Channels	512 (with 8 34945EXT extenders)
Switch Drive Configuration	Latching or non-latching

Power & Drive Specifications

Nominal Coil Drive Voltages	5 V, 12 V, 24 V (software selectable)
External Power Supply Input Range	Up to 30 V maximum

Physical & Interconnection

Extender Interconnect Distance	Up to 8 meters (using appropriate cabling)
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Environmental

Storage Temperature Range	-40°C to 70°C
Operating Humidity Range	Up to 80% RH at 40°C (non-condensing)

Inputs & Outputs

Interconnect Port Type	9-pin D-sub
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Electrical Specifications

Drive Channel Continuous Sink Current	200 mA
Drive Channel Peak Sink Current	600 mA (for up to 100 ms)
Position Sensing Input Type	TTL compatible (with internal 10 kΩ pull-up to 5 V)

Compliance

Safety Compliance	Conforms to CSA C22.2 No. 61010-1, EN 61010-1, UL 61010-1
EMC Compliance	Conforms to EN 61326-1, ICES-001, AS/NZS CISPR 11

TECHNOLOGY

Microwave Switch Driver

APPLICATIONS

Automated RF and microwave signal routing, attenuator control, ATE systems

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