KEYSIGHT TECHNOLOGIES (AGILENT HP)

34933A

The Keysight 34933A is a dual 4x8 armature matrix plug-in module designed for the 34980A multifunction switch/measure unit. It offers high-density switching capabilities for multi-point routing, allowing configuration as a 1-wire or 2-wire matrix to connect multiple instruments to multiple points on a device under test.

SPECIFICATIONS

General

Interfaces	Two 50-pin D-sub male connectors

Physical

Power Supply	Powered via 34980A mainframe backplane
Operating Temperature	0 °C to 55 °C °C
Weight	0.27 kg kg
Mainframe Slots Occupied	1 slot

Matrix Configuration

Matrix Configuration	Dual 4x8, 8x8, or 4x16 (user configurable)
Crosspoints	64 (dual 4x8)
Switch Type	Reed, non-latching
Number of Wires	1-wire or 2-wire

Input/Output Ratings

Maximum Switching Voltage	150 V
Maximum Switching Current	0.5 A
Maximum Carry Current	1.5 A
Maximum Switching Power	10 W

AC Performance

Bandwidth	30 MHz

DC Characteristics

Initial Closed Channel Resistance	< 1.5 Ohm

Relay Timing & Lifetime

Switching Speed	0.5 ms

Physical & Environmental

Compatible Mainframe	Keysight 34980A
Compatible Terminal Block	34933T (screw terminal block option)
Operating Humidity	Up to 80% RH at 40 °C (non-condensing)
Storage Temperature Range	-40 °C to 70 °C

Connectivity

Connector Type	Two 50-pin D-sub male connectors
Internal Analog Bus Relays	Yes

Features

Relay Cycle Counter	Yes (tracks cycle count for each relay in non-volatile memory)

Performance

Thermal Offset	< 50 µV

TECHNOLOGY

Armature Relay Matrix

APPLICATIONS

Automated Test Systems, Multi-point Signal Routing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.