KEYSIGHT TECHNOLOGIES (AGILENT HP)

16531A

The Keysight (Agilent/HP) 16531A is a 2-channel, 100 MHz, 400 MS/s digitizing oscilloscope acquisition card designed for the HP/Agilent 16500 series logic analysis systems. Operating as an expansion module to the 16530A oscilloscope timebase master card, it enables high-speed analog measurements time-correlated with logic analysis channels.

SPECIFICATIONS

General

Display	None (uses mainframe display)

Physical

Power Supply	Powered via mainframe backplane
Operating Temperature	0 to +55 °C °C

Acquisition Specifications

Number of Channels	2
Maximum Real-time Sample Rate	400 MS/s per channel
Analog Bandwidth	100 MHz
Vertical Resolution	8 bits
Memory Depth	4096 samples per channel

Signal Integrity & Probing

Input Impedance	1 MΩ
Input Coupling	AC, DC

System Integration & Mainframe Compatibility

Supported Mainframes	HP 16500A, HP 16500B, HP 16500C
Required Master Module	HP 16530A Oscilloscope Timebase Module
Slot Width Required	1 slot

Vertical System

Rise Time	3.5 ns
Vertical Sensitivity	10 mV/div to 5 V/div
Input Capacitance	14 pF
Maximum Input Voltage	±40 V (DC + peak AC)

Inputs & Outputs

Input Connectors	BNC (female)

TECHNOLOGY

Digitizing Oscilloscope Module

APPLICATIONS

Analog signal measurement and time-correlated cross-domain debugging in logic analysis systems

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