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Data Sheet
August 13, 2026

KEITHLEY

Keithley 7001 80-Channel / 2-Slot Switch Mainframe

Keysight / Agilent N7001A InfiniiMax III+ Probe Amplifier, 13 GHz The N7001A is a 13 GHz InfiniiMax III+ probe amplifier for Infiniium V-Series / 90000X Series 13 GHz oscilloscopes. Uses InfiniiMax III/III+ probe heads (not InfiniiMax I/II). Sibling of N7000/7002/7003A family. The N7001A is a 13 GHz InfiniiMax III+ probe amplifier for Infiniium V-Series / 90000X Series 13 GHz oscilloscopes. Uses InfiniiMax III/III+ probe heads (not InfiniiMax I/II). Sibling of N7000/7002/7003A family.

MODEL **Keithley 7001**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **7001**	LISTING **https://aumictechlabs.com/products/7001-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 7001 is an 80-channel, 2-slot mainframe switch system engineered for automated testing and signal routing across DC, RF, and optical domains. It delivers flexible switching architecture with up to 40 channels per slot, supporting signals ranging from nanovolts to 1100 V and femtoamps to 5 A. The instrument combines high-density channel capacity with programmable scan control, non-volatile memory for 100 switch patterns, and multiple trigger sources - enabling rapid, repeatable switching sequences at 165 channels per second. Technical Specifications Channel Capacity: Up to 80 channels of 2-pole switching (40 channels maximum per slot) Signal Range: DC from nanovolts to 1100 V; femtoamps to 5 A Analog Backplane Voltage:

250 V DC, 250 V rms, 350 V AC peak (signal-to-signal or signal-to-chassis) Backplane Current: 1 A peak Path Isolation: $>10^{10}$ Ω, 10^{10} Ω, 10^{9} Ω, <75 pF (path-to-chassis) Crosstalk: <−65 dB @ 1 MHz (50 Ω load) Bandwidth: <3 dB loss at 100 MHz (50 Ω load) Scan Execution Speed: 165 channels per second (including card settling time) Programmable Settling Time: 0 to 99999.999 seconds in 1 ms increments Switch Action: Automatic break-before-make Memory: Battery-backed non-volatile storage; up to 100 complete switch patterns Key Features Built-in scan control with programmable channel spacing, scan spacing, and scan count Multiple trigger sources: external TTL (600 ns minimum pulse), IEEE-488 bus, Trigger Link (high-speed), manual front-panel, and internal timer (1 ms to 99999.999 seconds) Channel Ready status output (TTL-compatible, 10 µs typical pulse after relay settling) Four open-collector digital I/O outputs (30 V maximum) Front-panel and IEEE-488 programmability Typical Applications Automated test systems requiring multi-channel signal routing DC precision measurement with ultra-low signal levels RF and optical signal switching and multiplexing Matrix expansion and cross-point switching via dual-card configurations Compatibility & Integration IEEE-488.1, IEEE-488.2, and SCPI-1990 compliant IEEE-488 8-pin micro-DIN rear-panel connector Trigger Link for synchronization with external instruments without GPIB latency

Features & description

From manufacturer datasheet

Applications

- Differential / single-ended probing to 13 GHz

7001 Characteristics / Specifications

PARAMETER	VALUE
Model	N7001A
Manufacturer	Keysight / Agilent
Instrument Type	InfiniiMax III+ Probe Amplifier
Alias	N7001A; Keysight N7001A
Bandwidth	13 GHz
Probe family	InfiniiMax III+
Host scopes	Infiniium V / 90000X 13 GHz
Head compatibility	InfiniiMax III/III+ only
Dynamic range	1 class: 5.0 Vpp Notes Specs from Keysight InfiniiMax III/III+ probing system data sheets. Exact input R/C and rise time depend on probe head–confirm head model on the unit.
Probe system	InfiniiMax III+
Compatible scopes	Infiniium V-Series / 90000X Series 13 GHz models
Head family	InfiniiMax III / III+ heads only (not I/II)
Attenuation	auto-selected with vertical scale (family 5:1 / 10:1 class behavior)
Dynamic range class (InfiniiMax III family)	2.5 Vpp @ 5:1; 5.0 Vpp @ 10:1
Related amps	N7000A 8 GHz; N7002A 16 GHz; N7003A 20 GHz
Also related	N2832A 13 GHz InfiniiMax III+ alternate SKU for some 90000A hosts
Rise Time	depend on probe head–confirm head model on the unit.

7001 Specifications

PARAMETER	VALUE
Applications	- Differential / single-ended probing to 13 GHz
Key Features	- Bandwidth: 13 GHz
Technical Specifications	Model: N7001A

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	N7001A
Manufacturer	Keysight / Agilent
Instrument Type	InfiniiMax III+ Probe Amplifier

Specifications

PARAMETER	VALUE
Alias	N7001A; Keysight N7001A
Bandwidth	13 GHz
Probe family	InfiniiMax III+

Host scopes: Infiniium V / 90000X 13 GHz

Head compatibility: InfiniiMax III/III+ only

Dynamic range 5:1 class: 2.5 Vpp

Dynamic range 10:1 class: 5.0 Vpp

Notes

Specs from Keysight InfiniiMax III/III+ probing system data sheets. Exact input R/C and rise time depend on probe head–confirm head model on the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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