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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MX0024A

Keysight MX0024A InfiniiMax Ultra 20 GHz Probe Amplifier The Keysight MX0024A is an InfiniiMax Ultra probe amplifier with 20 GHz bandwidth, RC impedance profile, and auto-selected 1 to 1 / 4 to 1 / 8 to 1 attenuation with documented dynamic and common-mode ranges. High-speed digital validation, differential probing with InfiniiMax Ultra and III heads. Instrument Type: InfiniiMax Ultra series probe amplifier The Keysight MX0024A is an InfiniiMax Ultra probe amplifier with 20 GHz bandwidth, RC impedance profile, and auto-selected 1 to 1 / 4 to 1 / 8 to 1 attenuation with documented dynamic and common-mode ranges. High-speed digital validation, differential probing with InfiniiMax Ultra and III heads. Instrument Type: InfiniiMax Ultra series probe amplifier Dc Input Resistance Single Ended: 25 kOhm plus or minus 2 percent with 25 kOhm probe heads



MODEL

**Agilent / Keysight
MX0024A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MX0024A

LISTING

<https://aumictechlabs.com/products/mx0024a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight MX0024A is a 20 GHz InfiniiMax Ultra Series probe amplifier engineered for high-speed digital validation and signal integrity measurements. It delivers low capacitive loading through RC input impedance architecture, preserving signal integrity while minimizing DUT impact. The amplifier supports InfiniiMode - enabling differential, single-ended A, single-ended B, and common-mode measurements from a single probe tip without reconnection. Technical

Specifications Bandwidth: 20 GHz Probe Amplifier Type: InfiniiMax Ultra Series Interface: AutoProbe 2 Total Length: 1346.2 mm (53 inches) including cable and connectors Cable Length: 1181.1 mm (46.5 inches) Key Features Input Impedance: $25\text{ k}\Omega \pm 2\%$ (single-ended); $50\text{ k}\Omega \pm 2\%$ (differential) with $25\text{ k}\Omega$ probe heads Dynamic Range: 600 mVpp @ 1:1; 2.5 Vpp @ 4:1; 5 Vpp @ 8:1 attenuation Input Common Mode Range: $\pm 8\text{V}$ (DC to 100 Hz); $\pm 0.5\text{V}$ @ 1:1 ($> 100\text{ Hz}$); $\pm 4\text{V}$ @ 4:1 ($> 100\text{ Hz}$) Input-Referred Noise: $16\text{ nV}/\sqrt{\text{Hz}}$ @ 1:1.56; $25.5\text{ nV}/\sqrt{\text{Hz}}$ @ 2.57:1 Flexible Attenuation: Auto-selected 1:1, 4:1, 8:1 ratios optimize noise performance and voltage range while maintaining full bandwidth InfiniiMode: Single probe tip configuration for multiple signal measurement types eliminates reconnection overhead AutoProbe 2 Integration: Automatic probe type detection, attenuation, power, and offset configuration on compatible Keysight oscilloscopes Low Loading Design: RC input impedance minimizes capacitive loading across the full frequency spectrum S-Parameter Characterized: Enhanced measurement accuracy through frequency-domain characterization Typical Applications High-speed digital design validation, differential and single-ended signal debugging, common-mode measurement, protocol analysis on bandwidth-constrained DUTs. Compatibility & Integration Oscilloscope Models: Infiniium UXR-Series, 90000 X-Series, 90000 Q-Series, 90000 V-Series, Z-Series Probe Head Support: Compatible with most InfiniiMax I and II probe heads. InfiniiMax III and III+ probe heads are not compatible with InfiniiMax Ultra series amplifiers.

MX0024A Characteristics / Specifications

PARAMETER	VALUE
Model	MX0024A
Instrument Type	InfiniiMax Ultra series probe amplifier
Bandwidth	20 GHz
Dc Input Resistance Single Ended	25 kOhm plus or minus 2 percent with 25 kOhm probe heads
Dc Input Resistance Differential	50 kOhm plus or minus 2 percent
Input Dynamic Range Attenuation 1 To	600 mVpp
Input Dynamic Range Attenuation 4 To	2.5 Vpp
Input Dynamic Range Attenuation 8 To	5 Vpp
Dc Attenuation Ratios	1 to 1, 4 to 1, 8 to 1 auto selected by volts per division
Input Common Mode Range Dc To 100 Hz	plus or minus 8 V
Input Common Mode Above 100 Hz Attenuation 1 To	plus or minus 0.5 V
Input Common Mode Above 100 Hz Attenuation 4 To	plus or minus 4 V
Interface	AutoProbe 2
Series	InfiniiMax Ultra
Architecture	RC input impedance profile
Probe Head Ecosystem	InfiniiMax Ultra and selected InfiniiMax III heads
Zif Tip Examples	N2838A N5440A N5447A ceramic and PC board ZIF tips
Browser Head Example	N5451A InfiniiMax III browser
Solder In Head Examples	E2677A E2678A family heads
Target Applications	high-speed digital validation and debug
Attenuation Selection	auto selected based on scope V/div setting
Form Factor	probe amplifier module AutoProbe 2
Manufacturer Family	Keysight InfiniiMax Ultra probe amplifiers
Sibling Bandwidth Models	MX0020A 10 GHz MX0021A 13 GHz MX0022A 16 GHz MX0025A 25 GHz

PARAMETER	VALUE
Attenuation	1 To 1: 600 mVpp

MX0024A Specifications

PARAMETER	VALUE
Keysight MX0024A InfiniiMax Ultra 20 GHz Probe Amplifier	Overview
Applications	High-speed digital validation, differential probing with InfiniiMax Ultra and III heads.
Key Features	20 GHz InfiniiMax Ultra amplifier
Technical Specifications	Model: MX0024A

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	MX0024A
Instrument Type	InfiniiMax Ultra series probe amplifier
Bandwidth	20 GHz
Dc Input Resistance Single Ended	25 kOhm plus or minus 2 percent with 25 kOhm probe heads
Dc Input Resistance Differential	50 kOhm plus or minus 2 percent
Input Dynamic Range Attenuation 1 To 1	600 mVpp
Input Dynamic Range Attenuation 4 To 1	2.5 Vpp
Input Dynamic Range Attenuation 8 To 1	5 Vpp
Dc Attenuation Ratios	1 to 1, 4 to 1, 8 to 1 auto selected by volts per division
Input Common Mode Range Dc To 100 Hz: plus or minus 8 V	
Input Common Mode Above 100 Hz Attenuation 1 To 1: plus or minus 0.5 V	
Input Common Mode Above 100 Hz Attenuation 4 To 1: plus or minus 4 V	
Specifications	
PARAMETER	VALUE
Interface	AutoProbe 2
Series	InfiniiMax Ultra
Architecture	RC input impedance profile
Probe Head Ecosystem	InfiniiMax Ultra and selected InfiniiMax III heads
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Notes

Bandwidth, resistances, dynamic ranges, attenuation ratios, and common-mode ranges from Keysight MX0024A InfiniiMax Ultra probe amplifier published specifications and Ultra series data sheet.

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

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.