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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MX0022A

Keysight MX0022A InfiniiMax Ultra 16 GHz Probe Amplifier AutoProbe II The Keysight MX0022A is the 16 GHz InfiniiMax Ultra probe amplifier with AutoProbe II. OEM 3121-1293EN lists MX0022A 16 GHz in the 10-to-25 GHz Ultra family with shared attenuation, offset, InfiniiMode, and RC impedance specifications. 16 GHz-class SerDes and memory probing on Infiniium high-bandwidth oscilloscopes. Instrument Type: InfiniiMax Ultra probe amplifier The Keysight MX0022A is the 16 GHz InfiniiMax Ultra probe amplifier with AutoProbe II. OEM 3121-1293EN lists MX0022A 16 GHz in the 10-to-25 GHz Ultra family with shared attenuation, offset, InfiniiMode, and RC impedance specifications. 16 GHz-class SerDes and memory probing on Infiniium high-bandwidth oscilloscopes. Instrument Type: InfiniiMax Ultra probe amplifier Attenuation Ratios: 1:1, 4:1, 8:1 auto switchable



MODEL	CALIBRATION
Agilent / Keysight MX0022A	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
MX0022A	https://aumictechlabs.com/products/mx0022a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MX0022A is a 16 GHz InfiniiMax Ultra Series probe amplifier engineered for high-speed digital design and signal integrity measurements. Built on RC input impedance architecture, it delivers minimal loading on circuits under test - critical for DDR5/LPDDR5 and emerging high-impedance signaling standards. The probe supports differential, single-ended, and common mode measurements via InfiniiMode technology, all through a single probe tip. AutoProbe 2 interface

enables automatic configuration of attenuation, probe type, power, and offset when connected to compatible Keysight oscilloscopes.

Technical Specifications

Bandwidth: 16 GHz

Input Impedance: RC architecture with 25 k Ω probe heads: 25 k Ω $\pm$ 2% (single-ended) 50 k Ω $\pm$ 2% (differential)

Optimized impedance at midband frequencies for low-energy probing

Attenuation Ratios: 1:1, 4:1, 8:1 with auto-selection based on voltage scaling

Input Dynamic Ranges: 600 mVpp @ 1:1 2.5 Vpp @ 4:1 5 Vpp @ 8:1

Input Common Mode Range: $\pm$ 8 V (DC to 100 Hz) $\pm$ 0.5 V @ 1:1 (> 100 Hz) $\pm$ 4 V @ 4:1 (> 100 Hz)

Offset: $\pm$ 16 V bias range

Key Features

- Lowest capacitive loading and noise for minimal circuit impact
- S-parameter DSP correction and user-defined AC calibration
- Automatic input range configuration based on signal amplitude and oscilloscope vertical scale
- Broad frequency response with minimal signal distortion

Typical Applications

- High-speed digital probing, DDR memory characterization, emerging signaling standard validation, and precision measurements on high-impedance nodes.

Compatibility & Integration

Works with Infiniium UXR-Series (with N2852A adapter for 1.185 mm models), 9000-Q/X/Z-Series, and V-Series oscilloscopes. Compatible with all InfiniiMax RC probe heads including the MX0100A, MX0106A, MX0105A, N2839A, N5425A, N2851A, E2678B, and E2677B. Also supports micro and socketed probe heads for dense PCB environments. Not compatible with Infiniium 9000 Series or earlier generation instruments.

MX0022A Characteristics / Specifications

PARAMETER	VALUE
Model	MX0022A
Instrument Type	InfiniiMax Ultra probe amplifier
Bandwidth	16 GHz
Interface	AutoProbe II
Attenuation Ratios	1:1, 4:1, 8:1 auto switchable
Dynamic Range 1 To	600 mVpp
Dynamic Range 4 To	2.5 Vpp
Dynamic Range 8 To	5 Vpp
Offset Range	plus or minus 16 V
Input Architecture	RC
Rdiff With Mx0100a	50 kohm plus or minus 2 percent
Rse With Mx0100a	25 kohm plus or minus 2 percent
Cdiff With Mx0100a	170 fF
Cse With Mx0100a	260 fF
InfiniiMode	differential single-ended common mode
Response Modes	True View and Source Estimate
Host Scopes	V Series, 90000 Q/X/Z, UXR 3.5 mm
Uxr 1 Mm Adapter	N2852A
Recommended Head	MX0100A
Related 13 Ghz Amp	MX0021A
Related 20 Ghz Amp	MX0024A
Solder In Head	MX0106A
Manufacturer	Keysight
Attenuation	Ratios: 1:1, 4:1, 8:1 auto switchable

MX0022A Specifications

PARAMETER	VALUE
Applications	16 GHz-class SerDes and memory probing on Infiniium high-bandwidth oscilloscopes.
Key Features	16 GHz Ultra amplifier
Technical Specifications	Model: MX0022A
Notes	From Keysight InfiniiMax Ultra data sheet 3121-1293EN MX0022A 16 GHz row.

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.	
Applications	
16 GHz-class SerDes and memory probing on Infiniium high-bandwidth oscilloscopes.	
Key Features	
16 GHz Ultra amplifier	
AutoProbe II	
InfiniiMode	
True View and Source Estimate	
Compatible with InfiniiMax RC heads	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	MX0022A
Instrument Type	InfiniiMax Ultra probe amplifier
Bandwidth	16 GHz
Interface	AutoProbe II
Attenuation Ratios	1:1, 4:1, 8:1 auto switchable
Dynamic Range 1 To 1	600 mVpp
Dynamic Range 4 To 1	2.5 Vpp
Dynamic Range 8 To 1	5 Vpp
Offset Range	plus or minus 16 V
Input Architecture	RC
Rdiff With Mx0100a	50 kohm plus or minus 2 percent
Rse With Mx0100a	25 kohm plus or minus 2 percent
Cdiff With Mx0100a	170 fF
Cse With Mx0100a	260 fF
InfiniiMode	differential single-ended common mode
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Host Scopes	V Series, 90000 Q/X/Z, UXR 3.5 mm
Uxr 1 Mm Adapter	N2852A
Recommended Head	MX0100A
Related 13 Ghz Amp	MX0021A
Related 20 Ghz Amp	MX0024A

PARAMETER	VALUE
Solder In Head	MX0106A
Manufacturer	Keysight

Notes
From Keysight InfiniiMax Ultra data sheet 3121-1293EN MX0022A 16 GHz row.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.