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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MX0021A

Keysight MX0021A InfiniiMax Ultra 13 GHz Probe Amplifier AutoProbe II The Keysight MX0021A is the 13 GHz InfiniiMax Ultra probe amplifier with AutoProbe II. OEM 3121-1293EN family table lists MX0021A 13 GHz with the same 1:1/4:1/8:1 attenuation, plus or minus 16 V offset, InfiniiMode, and RC loading as MX0020A/22A. 13 GHz-class high-speed digital probing on Infiniium V/Z/Q/UXR oscilloscopes. Instrument Type: InfiniiMax Ultra probe amplifier The Keysight MX0021A is the 13 GHz InfiniiMax Ultra probe amplifier with AutoProbe II. OEM 3121-1293EN family table lists MX0021A 13 GHz with the same 1:1/4:1/8:1 attenuation, plus or minus 16 V offset, InfiniiMode, and RC loading as MX0020A/22A. 13 GHz-class high-speed digital probing on Infiniium V/Z/Q/UXR oscilloscopes. Instrument Type: InfiniiMax Ultra probe amplifier Attenuation Ratios: 1:1, 4:1, 8:1 auto switchable



MODEL

**Agilent / Keysight
MX0021A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MX0021A

LISTING

<https://aumictechlabs.com/products/mx0021a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight MX0021A is a 13 GHz bandwidth probe amplifier engineered for high-speed signal acquisition on demanding test benches. Built on RC input impedance architecture, it delivers exceptionally low loading and minimal signal distortion across a wide frequency range, making it ideal for probing small devices and complex high-speed technologies such as DDR and MIPI standards. The probe amplifier supports InfiniiMode, enabling differential, single-ended (A

and B), and common mode measurements from a single probe tip without connection changes. Three attenuation ratios - 1:1, 4:1, and 8:1 - automatically configure based on signal size and oscilloscope vertical scale, providing input dynamic ranges of 600 mVpp (1:1), 2.5 Vpp (4:1), and 5 Vpp (8:1). Technical Specifications Bandwidth: 13 GHz Input Impedance Architecture: RC (optimal for signals transitioning to low-power, high-impedance modes) DC Input Resistance: 25 k Ω $\pm$ 2% (single-ended); 50 k Ω $\pm$ 2% (differential) with 25 k Ω probe heads 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) Attenuation Ratios: 1:1, 4:1, 8:1 Input Dynamic Ranges: 600 mVpp @ 1:1; 2.5 Vpp @ 4:1; 5 Vpp @ 8:1 Key Features RC high-impedance profile minimizes capacitive loading across more frequencies Highest input impedance in midband frequencies reduces energy draw on test circuits S-parameter correction with measured probe characteristics ensures accurate response Dual measurement modes: Source Estimate (Vout/Vsource, assuming 25 Ω source) and True View (Vout/Vin, including probe loading effects) AutoProbe II interface provides automatic probe configuration, power, and offset settings when connected to compatible oscilloscopes Typical Applications High-speed digital signal probing, DDR and MIPI standard measurements, low-power mode characterization, and precision signal acquisition on complex semiconductor devices. Compatibility & Integration The MX0021A integrates with Infiniium UXR-Series (1 and 1.85 mm models with N2852A adapter), 9000-Q/X/Z-Series, and V-Series oscilloscopes via AutoProbe II.

MX0021A Characteristics / Specifications

PARAMETER	VALUE
Model	MX0021A
Instrument Type	InfiniiMax Ultra probe amplifier
Bandwidth	13 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 10 Ghz Amp	MX0020A
Related 16 Ghz Amp	MX0022A
Solder In Head	MX0106A
Browser Head	N2839A
Manufacturer	Keysight
Attenuation	Ratios: 1:1, 4:1, 8:1 auto switchable

MX0021A Specifications

PARAMETER	VALUE
Applications	13 GHz-class high-speed digital probing on Infiniium V/Z/Q/UXR oscilloscopes.
Key Features	13 GHz Ultra amplifier
Technical Specifications	Model: MX0021A
Notes	From Keysight InfiniiMax Ultra data sheet 3121-1293EN MX0021A 13 GHz row. Head-limited bandwidth may be lower than 13 GHz.

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	
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Browser Head	N2839A
Manufacturer	Keysight

Notes

From Keysight InfiniiMax Ultra data sheet 3121-1293EN MX0021A 13 GHz row. Head-limited bandwidth may be lower than 13 GHz.

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.