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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MX0020A

Keysight MX0020A InfiniiMax Ultra 10 GHz Probe Amplifier AutoProbe II The Keysight MX0020A is a 10 GHz InfiniiMax Ultra probe amplifier with AutoProbe II interface. OEM InfiniiMax Ultra data sheet 3121-1293EN lists 10/13/16/20/25 GHz family amplifiers, auto-switchable 1:1 / 4:1 / 8:1 attenuation (600 mVpp / 2.5 Vpp / 5 Vpp), plus or minus 16 V offset, InfiniiMode, and RC input impedance with Rdiff 50 kohm plus or minus 2 percent and Rse 25 kohm plus or minus 2 percent on MX0100A. High-speed digital probing of DDR, MIPI, and SerDes signals on Infiniium V/Z/Q/90000X and UXR (3.5 mm) oscilloscopes. The Keysight MX0020A is a 10 GHz InfiniiMax Ultra probe amplifier with AutoProbe II interface. OEM InfiniiMax Ultra data sheet 3121-1293EN lists 10/13/16/20/25 GHz family amplifiers, auto-switchable 1:1 / 4:1 / 8:1 attenuation (600 mVpp / 2.5 Vpp / 5 Vpp), plus or minus 16 V offset, InfiniiMode, and RC input impedance with Rdiff 50 kohm plus or minus 2 percent and Rse 25 kohm plus or minus 2 percent on MX0100A. High-speed digital probing of DDR, MIPI, and SerDes signals on Infiniium V/Z/Q/90000X and UXR (3.5 mm) oscilloscopes.



MODEL

**Agilent / Keysight
MX0020A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MX0020A

LISTING

<https://aumictechlabs.com/products/mx0020a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MX0020A is a 10 GHz InfiniiMax Ultra Series probe amplifier engineered for high-fidelity signal integrity measurements. It delivers minimal loading and superior signal preservation

through an RC input impedance architecture, enabling accurate probing of modern high-speed designs without signal distortion. Three auto-switchable attenuation ratios and lowest-in-class noise across all ranges make it the choice for demanding analog and mixed-signal debug work.

Technical Specifications

Bandwidth: 10 GHz

Input Impedance: 25 k Ω $\pm$ 2% single-ended (with 25 k Ω probe heads) 50 k Ω $\pm$ 2% differential RC high-impedance profile minimizes mid-band capacitive loading

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

Attenuation: 1:1, 4:1, 8:1 (auto-switchable)

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

Offset Range: $\pm$ 16 V

Maximum Input Voltage: 18 V peak CAT I

Key Features

Three attenuation ranges deliver lowest noise performance across full bandwidth

Lowest capacitive loading due to RC input impedance profile

AutoProbe II interface (3.5 mm) enables auto-configuration and probe power delivery on compatible oscilloscopes

Cable and connector assembly totals 1346.2 mm; cable only 1181.1 mm

Ground connection terminal for DUTs not grounded to scope via mains earth

Typical Applications

High-speed signal integrity analysis, embedded system debug, power integrity measurements, and jitter characterization on systems requiring minimal probe loading and maximum signal fidelity.

Compatibility & Integration

Oscilloscopes: Infiniium UXR-Series, 90000 X-/Q-/V-/Z-Series, Infiniium V-Series, Infiniium 90000X/Q Series (25 GHz and higher)

Probe Heads: Compatible with InfiniiMax Ultra and InfiniiMax RC probe head families, including MX0100A, MX0106A, MX0105A, N2839A, N5425A, N2851A, E2678B, and E2677B.

MX0020A Characteristics / Specifications

PARAMETER	VALUE
Model	MX0020A
Instrument Type	InfiniiMax Ultra probe amplifier
Bandwidth	10 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 (Infiniium 6.70 or 11.20 as applicable)
Uxr 1 Mm Adapter	N2852A AutoProbe II to III
Recommended Head	MX0100A 25 GHz micro probe head
Solder In Head	MX0106A
Browser Head	N2839A
Zif Head	N5425B with N5426A tip
Sma Head	MX0105A
Manufacturer	Keysight

PARAMETER	VALUE
Attenuation	Ratios: 1:1, 4:1, 8:1 auto switchable

MX0020A Specifications

PARAMETER	VALUE
Applications	High-speed digital probing of DDR, MIPI, and SerDes signals on Infiniium V/Z/Q/90000X and UXR (3.5 mm) oscilloscopes.
Key Features	10 GHz Ultra amplifier
Technical Specifications	Model: MX0020A

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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PARAMETER	VALUE
Model	MX0020A
Instrument Type	InfiniiMax Ultra probe amplifier
Bandwidth	10 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
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Recommended Head	MX0100A 25 GHz micro probe head
Solder In Head	MX0106A
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Zif Head	N5425B with N5426A tip
Sma Head	MX0105A
Manufacturer	Keysight
Notes	
From Keysight InfiniiMax Ultra Series Probes and Accessories data sheet 3121-1293EN. Bandwidth is the	

amplifier rating; system bandwidth depends on the selected probe head.

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
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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