

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ASTRONICS / C&#38;AMP;H TECHNOLOGIES

Astronics / C&H Technologies MA209 100MHz Pulse Generator

The Astronics/C&H Technologies MA209 is a 100MHz pulse generator. It delivers precise and stable pulse signals for a variety of testing and timing applications. This generator features adjustable pulse width, amplitude, and delay, making it suitable for research, development, and production environments. Its solid design ensures reliability and accuracy in demanding conditions.



MODEL

**Astronics /
C&amp;H
Technologies
MA209**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MA209

LISTING

[https://aumictechlabs.c
om/products/ma209-2/](https://aumictechlabs.com/products/ma209-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Astronics/C&H Technologies MA209 is a 100 MHz pulse generator engineered for precision signal generation across research, development, and production test environments. Implemented as an M-Module conforming to ANSI/VITA 12-1996, it integrates with VXI, VME, PCI, and cPCI carrier boards. The MA209 delivers fully programmable frequency, pulse width, delay, and amplitude control with exceptional timing accuracy and flexible operational modes including single pulse, continuous, burst, and double-pulse generation. Technical Specifications Pulse Frequency (Internal Clock) Range: 0.093 Hz to 100 MHz Resolution: 0.093 Hz Accuracy: $\pm 0.01\%$ Temperature

Coefficient: +17 ppm/°C typ. Pulse Width Range: 5 ns to (period – 3 ns) Accuracy: $\pm(3\% + 250 \text{ ps})$ Resolution: 10 ps to 20 ps depending on width; approximately 10 ps per 12 ns increment above 24 ns Pulse Delay Range: 5 ns to 5 s Accuracy: $\pm(3\% + 250 \text{ ps})$ Double Pulse Spacing Range: (width + 3 ns) to (period – width – 3 ns) Accuracy: $\pm(3\% + 250 \text{ ps})$ Pulse Output Amplitude Range: -1.5 V to +6.5 V (open circuit) Output Impedance: 50 Ω Amplitude Resolution: 2 mV (12-bit) Amplitude Accuracy: $\pm(2.0\% + 100 \text{ mV})$ Output Current: $\pm 60 \text{ mA}$ typical; $\pm 120 \text{ mA}$ max (short circuit, dynamic) Programmable Rise/Fall Time: 0.625 to 2.5 V/ns Sync Output Latency Time from External Trigger: 1 billion pulses), and double-pulse modes Follow-trigger and inverted pulse/sync operation Dual external trigger inputs (front panel and M-Module) Gate, trigger, and reference clock inputs selectable from front panel or M-Module backplane Pulse and Sync outputs routable to front panel or M-Module backplane connectors $\pm 0.01\%$ frequency accuracy with disciplined external reference Typical Applications Pulse characterization, radar and sonar testing, timing synchronization, and circuit validation in laboratory and production environments. Compatibility & Integration M-Module form factor with front-panel connectors (Pulse Output, Sync Output, Input A, Input B) and M-Module backplane Trig A & B signals. Operates from +5V (1500 mA max) and +12V supplies.

Features & description

From manufacturer datasheet

Technical Specifications Pulse Frequency (Internal Clock)

Range: 0.093 Hz to 100 MHz Resolution: 0.093 Hz Accuracy: $\pm 0.01\%$ Temperature Coefficient: $+17$ ppm/ $^{\circ}\text{C}$ typ. Pulse Width Range: 5 ns to (period – 3 ns) Accuracy: $\pm(3\% + 250\text{ ps})$ Resolution: 10 ps to 20 ps depending on width; approximately 10 ps per 12 ns increment above 24 ns Pulse Delay Range: 5 ns to 5 s Accuracy: $\pm(3\% + 250\text{ ps})$ Double Pulse Spacing Range: (width + 3 ns) to (period – width – 3 ns) Accuracy: $\pm(3\% + 250\text{ ps})$ Pulse Output Amplitude Range: -1.5 V to +6.5 V (open circuit) Output Impedance: 50 Ω Amplitude Resolution: 2 mV (12-bit) Amplitude Accuracy: $\pm(2.0\% + 100\text{ mV})$ Output Current: $\pm 60\text{ mA}$ typical; $\pm 120\text{ mA}$ max (short circuit, dynamic) Programmable Rise/Fall Time: 0.625 to 2.5 V/ns Sync Output Latency Time from External Trigger: 1 billion pulses), and double-pulse modes Follow-trigger and inverted pulse/sync operation Dual external trigger inputs (front panel and M-Module) Gate, trigger, and reference clock inputs selectable from front panel or M-Module backplane Pulse and Sync outputs routable to front panel or M-Module backplane connectors $\pm 0.01\%$ frequency accuracy with disciplined external reference

Specifications

Parameter	Value
Frequency Range	0.093 Hz to 100 MHz Voltage / Current Range: -1.5 V to +6.5 V output, +12V, +5V @ 1500 mA, $\pm 60\text{ mA}$ source/sink

Astronics / C&H Technologies MA209 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Astronics / C&H Technologies MA209. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

Astronics / C&H Technologies MA209 price

This Astronics / C&H Technologies MA209 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Astronics / C&H Technologies MA209 calibration cost

NIST-traceable calibration for the Astronics / C&H Technologies MA209 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Unit notes

The Astronics/C&H Technologies MA209 is a 100 MHz pulse generator engineered for precision signal generation across research, development, and production test environments. Implemented as an M-Module conforming to ANSI/VITA 12-1996, it integrates with VXI, VME, PCI, and cPCI carrier boards. The MA209 delivers fully programmable frequency, pulse width, delay, and amplitude control with exceptional timing accuracy and flexible operational modes including single pulse, continuous, burst, and double-pulse generation. Technical Specifications Pulse Frequency (Internal Clock) Range: 0.093 Hz to 100 MHz Resolution: 0.093 Hz Accuracy: $\pm 0.01\%$ Temperature Coefficient: $+17 \text{ ppm}/^\circ\text{C}$ typ. Pulse Width Range: 5 ns to (period – 3 ns) Accuracy: $\pm(3\% + 250 \text{ ps})$ Resolution: 10 ps to 20 ps depending on width; approximately 10 ps per 12 ns increment above 24 ns Pulse Delay Range: 5 ns to 5 s Accuracy: $\pm(3\% + 250 \text{ ps})$ Double Pulse Spacing Range: (width + 3 ns) to (period – width – 3 ns) Accuracy: $\pm(3\% + 250 \text{ ps})$ Pulse Output Amplitude Range: -1.5 V to +6.5 V (open circuit) Output Impedance: 50Ω Amplitude Resolution: 2 mV (12-bit) Amplitude Accuracy: $\pm(2.0\% + 100 \text{ mV})$ Output Current: $\pm 60 \text{ mA}$ typical; $\pm 120 \text{ mA}$ max (short circuit, dynamic) Programmable Rise/Fall Time: 0.625 to 2.5 V/ns Sync Output Latency Time from External Trigger: 1 billion pulses), and double-pulse modes Follow-trigger and inverted pulse/sync operation Dual external trigger inputs (front panel and M-Module) Gate, trigger, and reference c

MA209 Specifications

PARAMETER	VALUE
Frequency Range	0.093 Hz to 100 MHz Voltage / Current Range: '-1.5 V to +6.5 V output, +12V, +5V @ 1500 mA, ±60 mA source/sink
Range	0.093 Hz to 100 MHz
Resolution	0.093 Hz
Accuracy	±0.01%
Temperature Coefficient	+17 ppm/°C typ. Pulse Width
Amplitude Range	-1.5 V to +6.5 V (open circuit)
Output Impedance	50 Ω
Amplitude Resolution	2 mV (12-bit)
Amplitude Accuracy	±(2.0% + 100 mV)
Output Current	±60 mA typical; ±120 mA max (short circuit, dynamic)
Programmable Rise/Fall Time	0.625 to 2.5 V/ns Sync Output Latency
Time from External Trigger	1 billion pulses), and double-pulse modes

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.

The Astronics/C&H Technologies MA209 is a 100MHz pulse generator. It delivers precise and stable pulse signals for a variety of testing and timing applications. This generator features adjustable pulse width, amplitude, and delay, making it suitable for research, development, and production environments. Its solid design ensures reliability and accuracy in demanding conditions.

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Resolution: 10 ps to 20 ps depending on width; approximately 10 ps per 12 ns increment above 24 ns Pulse Delay

Gate, trigger, and reference clock inputs selectable from front panel or M-Module backplane

MA209 Specifications

PARAMETER	VALUE
Frequency Range	0.093 Hz to 100 MHz Voltage / Current Range: '-1.5 V to +6.5 V output, +12V, +5V @ 1500 mA, ±60 mA source/sink
Range	0.093 Hz to 100 MHz
Resolution	0.093 Hz
Accuracy	±0.01%
Temperature Coefficient	+17 ppm/°C typ. Pulse Width
Amplitude Range	-1.5 V to +6.5 V (open circuit)
Output Impedance	50 Ω
Amplitude Resolution	2 mV (12-bit)
Amplitude Accuracy	±(2.0% + 100 mV)
Output Current	±60 mA typical; ±120 mA max (short circuit, dynamic)
Programmable Rise/Fall Time	0.625 to 2.5 V/ns Sync Output Latency
Time from External Trigger	1 billion pulses), and double-pulse modes

Technical Specifications Pulse Frequency (Internal Clock)

Range: 0.093 Hz to 100 MHz

Resolution: 0.093 Hz

Accuracy: ±0.01%

Temperature Coefficient: +17 ppm/°C typ. Pulse Width

Range: 5 ns to (period - 3 ns)

Accuracy: ±(3% + 250 ps)

Resolution: 10 ps to 20 ps depending on width; approximately 10 ps per 12 ns increment above 24 ns Pulse Delay

Range: 5 ns to 5 s

Accuracy: $\pm(3\% + 250 \text{ ps})$ Double Pulse Spacing

Range: (width + 3 ns) to (period - width - 3 ns)

Accuracy: $\pm(3\% + 250 \text{ ps})$ Pulse Output

Amplitude Range: -1.5 V to +6.5 V (open circuit)

Output Impedance: 50 Ω

Amplitude Resolution: 2 mV (12-bit)

Amplitude Accuracy: $\pm(2.0\% + 100 \text{ mV})$

Output Current: $\pm 60 \text{ mA}$ typical; $\pm 120 \text{ mA}$ max (short circuit, dynamic)

Programmable Rise/Fall Time: 0.625 to 2.5 V/ns Sync Output Latency

Time from External Trigger: 1 billion pulses), and double-pulse modes

Follow-trigger and inverted pulse/sync operation

Dual external trigger inputs (front panel and M-Module)

Gate, trigger, and reference clock inputs selectable from front panel or M-Module backplane

Pulse and Sync outputs routable to front panel or M-Module backplane connectors

$\pm 0.01\%$ frequency accuracy with disciplined external reference

Specifications

Parameter Value Frequency Range 0.093 Hz to 100 MHz | Voltage / Current Range: -1.5 V to +6.5 V output, +12V, +5V @ 1500 mA, $\pm 60 \text{ mA}$ source/sink

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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

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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

788 S 500 E, Pleasant Grove, UT 84062
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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.