

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

INTRA ACTION

Intra Action Signal Processor ME-401T7

The Intra Action Signal Processor ME-401T7 is engineered for advanced signal manipulation and processing. Ideal for laboratory, research, and industrial applications, this processor delivers precision and reliability. Features include high bandwidth, low noise operation, and customizable settings to meet diverse signal processing needs.



MODEL

Intra Action ME-401T7

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ME-401T7

LISTING

<https://aumictechlabs.com/products/me-401t7-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Intra Action ME-401T7 is a signal processor combining crystal-controlled RF generation, fast modulation, and broadband power amplification in a single chassis. It delivers precision RF signal conditioning for laboratory, research, and industrial acousto-optic applications, with integrated power supply and RFI filtering.

Technical Specifications

RF Performance

Oscillator frequency: Model-dependent (ME-4010 operates at 40 MHz)

RF output power: Varies by model (ME-40: 2 W, ME-405: 5 W, ME-4010: 10 W)

RF amplifier class: AB

Harmonics at full power: -20 dBc

Rise/fall time: 30 nsec

Extinction ratio: 40 dB (standard); 70 dB (T7 and -6 options)

Output mismatch tolerance: 100 percent

Impedance: 50 Ω input and output

Modulation Input

Analog: 0-1 V for 0-to-specified RF power output

Digital (T option): 2 V to 5 V for RF on; 50 Ω input impedance

Digital with enhanced rejection (T7 option): 70 dB extinction ratio

Hybrid (-6 option): Analog and digital inputs combined; 70 dB extinction ratio

Oscillator Characteristics

Calibration tolerance: 25 ppm

(standard) Factory-installed crystals available at alternate frequencies Optional external frequency source via front panel (N option) Output Control CW RF output level: Front panel adjustable via DC offset insertion Pulsed operation: Supported by broadband amplifier bandwidth Modulation Bandwidth and Rise Time Bandwidth (-3 dB): 20 MHz (0.22 mm dia.) or 8.8 MHz (0.5 mm dia.) Optical rise time: 24 ns (0.22 mm dia.) or 55 ns (0.5 mm dia.)

Electrical Specifications
Line voltage: 115/230 Vac, 50–60 Hz (standard); 100 Vac option (J) Integrated power supply and RFI line filter

Key Features Class AB RF amplification with fast switching response Standalone power amplifier mode available (H option) Crystal oscillator reference output at +10 dBm CW (E option) High extinction ratio variants for demanding modulation applications

Typical Applications
Acousto-optic signal modulation and control RF-driven optical modulators Laboratory and research signal conditioning Industrial RF switching and amplification

Compatibility & Integration
External frequency source input (N option) allows substitution of the internal crystal oscillator. Standalone RF power amplifier operation available via H option. Frequency and power configuration determined by ME-series model selection.

Features & description

From manufacturer datasheet

Technical Specifications

Oscillator frequency: Model-dependent (ME-4010 operates at 40 MHz) RF output power: Varies by model (ME-40: 2 W, ME-405: 5 W, ME-4010: 10 W) RF amplifier class: AB Harmonics at full power: -20 dBc Rise/fall time: 30 nsec Extinction ratio: 40 dB (standard); 70 dB (T7 and -6 options) Output mismatch tolerance: 100 percent Impedance: 50 Ω input and output Modulation Input Analog: 0-1 V for 0-to-specified RF power output Digital (T option): 2 V to 5 V for RF on; 50 Ω input impedance Digital with enhanced rejection (T7 option): 70 dB extinction ratio Hybrid (-6 option): Analog and digital inputs combined; 70 dB extinction ratio Oscillator Characteristics Calibration tolerance: 25 ppm (standard) Factory-installed crystals available at alternate frequencies Optional external frequency source via front panel (N option) Output Control CW RF output level: Front panel adjustable via DC offset insertion Pulsed operation: Supported by broadband amplifier bandwidth Modulation Bandwidth and Rise Time Bandwidth (-3 dB): 20 MHz (0.22 mm dia.) or 8.8 MHz (0.5 mm dia.) Optical rise time: 24 ns (0.22 mm dia.) or 55 ns (0.5 mm dia.)

Key Features

Class AB RF amplification with fast switching response Standalone power amplifier mode available (H option) Crystal oscillator reference output at +10 dBm CW (E option) High extinction ratio variants for demanding modulation applications

Specifications

Parameter	Value
Frequency Range	Model-dependentME-4010 operates at 40 MHz Power Range (dBm)' +10 dBm (crystal oscillator reference output, E option) Voltage / Current Range: 115/230 Vac, 50-60 Hz (standard)

Intra Action ME-401T7 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Intra Action ME-401T7. 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 →

Intra Action ME-401T7 price

This Intra Action ME-401T7 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Intra Action ME-401T7 calibration cost

NIST-traceable calibration for the Intra Action ME-401T7 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 →

Applications

Acousto-optic signal modulation and control RF-driven optical modulators Laboratory and research signal conditioning Industrial RF switching and amplification Compatibility & Integration External frequency source input (N option) allows substitution of the internal crystal oscillator. Standalone RF power amplifier operation available via H option. Frequency and power configuration determined by ME-series model selection.

Unit notes

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Digital with enhanced rejection (T7 option): 70 dB extinction ratio

Hybrid (-6 option): Analog and digital inputs combined; 70 dB extinction ratio

Oscillator Characteristics

Calibration tolerance: 25 ppm (standard)

Factory-installed crystals available at alternate frequencies

Optional external frequency source via front panel (N option)

Output Control

CW RF output level: Front panel adjustable via DC offset insertion

Pulsed operation: Supported by broadband amplifier bandwidth

Modulation Bandwidth and Rise Time Bandwidth (-3 dB): 20 MHz (0.22 mm dia.) or 8.8 MHz (0.5 mm dia.)

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Electr

ME-401T7 Specifications

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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.

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Specifications

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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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<https://aumictechlabs.com>

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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.