

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

July 30, 2026

TEKTRONIX

Tektronix TG501 Time Mark Generator

The Tektronix TG501 is a general-purpose time mark generator plug-in for the TM500 series power module system. Public documentation describes the TG501 as a timing reference and calibration aid that provides selectable marker intervals from nanoseconds to seconds, with variable timing readout for simple and accurate timing error measurements. The TG501 is used for timing reference generation, calibration checks, timing error measurement, waveform timing verification, and general service work in environments using the Tektronix TM500 modular instrument family. It is suitable wherever precise repetitive timing markers are required over a wide interval range. The TG501 is used for timing reference generation, calibration checks, timing error measurement, waveform timing verification, and general service work in environments using the Tektronix TM500 modular instrument family. It is suitable wherever precise repetitive timing markers are required over a wide interval range.

No photo

MODEL

Tektronix TG501

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

TG501

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Plug-in format for Tektronix TM500 series power modules
- Marker interval range from 1 ns to 5 s in 1-2-5 sequence
- Variable timing readout for measuring timing errors
- Error readout range to $\pm 7.5\%$
- Trigger output slaved to marker output for slower settings
- External reference input compatibility
- Internal crystal-based reference operation

TG501 Characteristics / Specifications

PARAMETER	VALUE
Model	TG501
Instrument Type	Time Mark Generator Plug-In
System Compatibility	Tektronix TM500 series power module
Interval Range	1 ns to 5 s
Interval Sequence	1-2-5 sequence
Timing Accuracy Stability	1×10^{-5}
Error Readout Accuracy	1 digit (+/-0.1% points)
Error Readout Range	To +/-7.5%
Amplitude 5 s through 10 ns	At least 1 V peak into 50 ohm
Amplitude 5 ns and 2 ns	At least 750 mVp-p into 50 ohm
Amplitude 1 ns	At least 200 mVp-p into 50 ohm on separate output
Trigger Output	Slaved to marker output from 5 s through 100 ns, remains at 100 ns for faster markers
External Reference Input	1 MHz, 5 MHz, or 10 MHz
External Reference Compatibility	TTL compatible
Internal Reference	1 MHz crystal reference
Internal Architecture Note	100 MHz VCO phase-locked to internal or external reference Operational Notes The TG501 provides both fixed timing markers and variable timing operation. In variable mode, the internal timing is compared against the fixed reference and displayed as a percent deviation, allowing straightforward measurement of timing error.

TG501 Specifications

PARAMETER	VALUE
Tektronix TG501 Time Mark Generator	Overview
Key Features	- Plug-in format for Tektronix TM500 series power modules
Technical Specifications	Model: TG501

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

Specifications

PARAMETER	VALUE
Model	TG501
Instrument Type	Time Mark Generator Plug-In
System Compatibility	Tektronix TM500 series power module
Interval Range	1 ns to 5 s
Interval Sequence	1-2-5 sequence
Timing Accuracy Stability	1 x 10 ⁻⁵

Long-Term Drift: 1 x 10⁻⁵ per month

Option 01 Stability: 5 x 10⁻⁷

Option 01 Long-Term Drift: 1 x 10⁻⁷ per month

Specifications

PARAMETER	VALUE
Error Readout Accuracy	1 digit (+/-0.1% points)
Error Readout Range	To +/-7.5%
Amplitude 5 s through 10 ns	At least 1 V peak into 50 ohm
Amplitude 5 ns and 2 ns	At least 750 mVp-p into 50 ohm
Amplitude 1 ns	At least 200 mVp-p into 50 ohm on separate output
Trigger Output	Slaved to marker output from 5 s through 100 ns, remains at 100 ns for faster markers
External Reference Input	1 MHz, 5 MHz, or 10 MHz
External Reference Compatibility	TTL compatible
Internal Reference	1 MHz crystal reference
Internal Architecture Note	100 MHz VCO phase-locked to internal or external reference

Operational Notes

The TG501 provides both fixed timing markers and variable timing operation. In variable mode, the internal timing is compared against the fixed reference and displayed as a percent deviation, allowing straightforward measurement of timing error.

Notes

This manual OEM source was compiled from public TG501 specification references and user-manual summaries for the Tektronix TM500-family time mark generator.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated July 30, 2026

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