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Data Sheet

July 30, 2026

TEKTRONIX

Tektronix MDO3EMBD Embedded Serial Triggering And Analysis Module

Tektronix MDO3EMBD Embedded Serial Triggering And Analysis Module The Tektronix MDO3EMBD is an application module for the MDO3000 series mixed domain oscilloscopes. Public Tektronix references describe it as the embedded serial triggering and analysis option for I2C and SPI buses, extending the oscilloscope with decode, search, and protocol-aware triggering capabilities for embedded debug. The MDO3EMBD is intended for engineers debugging embedded systems that use I2C and SPI serial buses. It supports protocol-level troubleshooting, packet-oriented trigger qualification, bus decode visibility, and event search across embedded serial transactions. The Tektronix MDO3EMBD is an application module for the MDO3000 series mixed domain oscilloscopes. Public Tektronix references describe it as the embedded serial triggering and analysis option for I2C and SPI buses, extending the oscilloscope with decode, search, and protocol-aware triggering capabilities for embedded debug. The MDO3EMBD is intended for engineers debugging embedded systems that use I2C and SPI serial buses. It supports protocol-level troubleshooting, packet-oriented trigger qualification, bus decode visibility, and event search across embedded serial transactions.

No photo

MODEL Tektronix MDO3EMBD	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU MDO3EMBD	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

- Adds embedded serial triggering and analysis to MDO3000 oscilloscopes
- Supports I2C bus triggering, decode, and analysis
- Supports SPI bus triggering, decode, and analysis
- Enables packet-level trigger conditions
- Provides decode and search functions for embedded serial buses
- Integrates with oscilloscope waveform views for protocol debug

MDO3EMBD Characteristics / Specifications

PARAMETER	VALUE
Model	MDO3EMBD
Instrument Type	Oscilloscope application module
Platform Compatibility	Tektronix MDO3000 series mixed domain oscilloscopes
Bus Support	I2C, SPI
Function Category	Embedded serial triggering and analysis
I2C Triggering	Yes
I2C Decode	Yes
I2C Search and Analysis	Yes
SPI Triggering	Yes
SPI Decode	Yes
SPI Search and Analysis	Yes
Trigger Level	Packet-level information on supported buses
Integration	Adds decode and analysis capability within the host oscilloscope environment Operational Notes The MDO3EMBD is one of several optional application modules available for the MDO3000 platform. It is used when the oscilloscope must trigger on and decode embedded serial traffic rather than only observe analog waveforms. Typical use cases include firmware bring-up, peripheral communication verification, and fault localization on board-level serial links.

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	MD03EMBD
Instrument Type	Oscilloscope application module
Platform Compatibility	Tektronix MD03000 series mixed domain oscilloscopes
Bus Support	I2C, SPI
Function Category	Embedded serial triggering and analysis
I2C Triggering	Yes
I2C Decode	Yes
I2C Search and Analysis	Yes
SPI Triggering	Yes
SPI Decode	Yes
SPI Search and Analysis	Yes
Trigger Level	Packet-level information on supported buses
Integration	Adds decode and analysis capability within the host oscilloscope environment

Operational Notes

The MD03EMBD is one of several optional application modules available for the MD03000 platform. It is used when the oscilloscope must trigger on and decode embedded serial traffic rather than only observe analog waveforms. Typical use cases include firmware bring-up, peripheral communication verification, and fault localization on board-level serial links.

Related Module Context

Within the MD03000 application ecosystem, MD03EMBD covers embedded serial buses, while other options cover computer serial, USB, automotive, audio, FlexRay, aerospace, logic expansion, and power analysis. This makes the MD03EMBD the targeted option for I2C and SPI development workflows.

Notes

This manual OEM source was compiled from public Tektronix MD03000 series datasheet references and embedded serial application descriptions for the MD03EMBD module.

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

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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.