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Data Sheet

August 15, 2026

JOERGER ENTERPRISES

Joerger Enterprises VTR10014 Analog Digitizer with Oscilloscope Characteristic

Joerger Enterprises VTR10014 Eight Channel 100 MHz 14 Bit VME Digitizer The Joerger VTR10014 is a 6U VME analog digitizer with oscilloscope and RF inputs. OEM literature lists 1 2 4 or 8 channels at 100 MHz with 14 bit resolution, 256 kwords SRAM standard (512 kwords optional, 4 M total), 10 MOhm DC inputs, transformer-coupled RF inputs exceeding 250 MHz into 50 Ohm, averaging 2 to 128 samples, and about 18 W at 100 MHz. High-resolution transient recording including RF carrier capture in VME experimental systems. The Joerger VTR10014 is a 6U VME analog digitizer with oscilloscope and RF inputs. OEM literature lists 1 2 4 or 8 channels at 100 MHz with 14 bit resolution, 256 kwords SRAM standard (512 kwords optional, 4 M total), 10 MOhm DC inputs, transformer-coupled RF inputs exceeding 250 MHz into 50 Ohm, averaging 2 to 128 samples, and about 18 W at 100 MHz. High-resolution transient recording including RF carrier capture in VME experimental systems. RF transformer inputs greater than 250 MHz Channel Configurations: 1 2 4 or 8 channels



MODEL

**Joerger
Enterprises
VTR10014**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VTR10014

LISTING

<https://aumictechlabs.com/products/vtr10014-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Joerger Enterprises VTR10014 is a 6U VME analog digitizer module delivering real-time signal acquisition with oscilloscope-grade input characteristics. Available in 1, 2, 4, or 8 channel configurations, each channel digitizes at 100 MHz with 14-bit resolution and 512K words of dedicated SRAM. Signal averaging from 2 to 128 samples improves SNR for precision measurement. The module accepts single-ended or differential inputs at 10 M Ω impedance with adjustable full-scale offset control and multiple trigger modes - post-trigger, multiple post-trigger, pre/post-trigger, and multiple pre/post-trigger - sourced from front panel input, VME command, or selected channels. Trigger events capture both address and real-time arrival data with programmable active-mode delay and selectable event register thresholds.

Technical Specifications
Form Factor: 6U VME, single-width module
Channels: Configurable 1, 2, 4, or 8 analog digitizers
Sample Rate: 100 MHz per channel
Resolution: 14 bits
Memory: 512K words SRAM per channel; up to 4M words total
Signal Averaging: 2 to 128 samples (selectable)
Input Impedance: 10 M Ω
Input Coupling: Single-ended or differential
Full-Scale Offset: ± 1.1 V standard; adjustable to 0 to +2.2 V or -2.2 V to 0 V

Key Features
Multiple acquisition modes capture single-shot and repetitive events
Independent power and ground filtering per channel minimizes crosstalk
Sparse scan mode accelerates readout speed
64-bit MBLT64 block transfer delivers four data words per read cycle
A32 extended addressing supports VMEbus data transfers
Trigger timing programmable with real-time logging

Typical Applications
High-speed transient capture and waveform digitization
Multi-channel signal analysis and event correlation
Precision instrumentation requiring low-noise measurement

Compatibility & Integration
LabVIEW and EPICS software packages provided at no cost. VME A32 addressing enables integration into existing crate-based systems. Block transfer mode and dual-channel simultaneous readout optimize throughput in demanding acquisition environments.

VTR10014 Characteristics / Specifications

PARAMETER	VALUE
Model	VTR10014
Instrument Type	VME analog digitizer
Form Factor	6U single width VME
Maximum Clock Rate	100 MHz
Vertical Resolution	14 bits
Channel Configurations	1 2 4 or 8 channels
Standard Memory Per Channel	256 kwords SRAM
Total Memory Eight Channel Optional	4 Mwords
Signal Averaging Depth	2 to 128 samples
Dc Input Impedance	10 MOhm DC coupled
Rf Input Impedance	50 Ohm
Rf Input Bandwidth	greater than 250 MHz
Rf Coupling	transformer coupled
Input Modes	single ended or differential on DC path
Full Scale Offset	supported
Power Dissipation At 100 Mhz	18 W
Memory Type	static RAM no refresh
Bus Interface	VMEbus
Series Family	Joerger VTR100xx
Use Case	single shot and RF carrier recording
Channel Independence	each channel self contained
Operating Temperature Class	0 C to 50 C lab
Bandwidth	greater than 250 MHz
Operating temperature	Class: 0 C to 50 C lab

VTR10014 Specifications

PARAMETER	VALUE
Key Features	Up to eight 100 MHz 14 bit channels
Optional 512 kwords memory per channel	RF transformer inputs greater than 250 MHz
Technical Specifications	Model: VTR10014
Notes	From Joerger VTR10014 OEM product literature (100 MHz, 14-bit, memory, RF bandwidth, 18 W).

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 C to 50 C lab
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Operating Temperature Class	0 C to 50 C lab Notes From Joerger VTR10014 OEM product literature (100 MHz, 14-bit, memory, RF bandwidth, 18 W).

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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Instrument Type	VME analog digitizer
Form Factor	6U single width VME
Maximum Clock Rate	100 MHz
Vertical Resolution	14 bits
Channel Configurations	1 2 4 or 8 channels
Standard Memory Per Channel	256 kwords SRAM
Optional Memory Per Channel: 512 kwords	
Specifications	
PARAMETER	VALUE
Total Memory Eight Channel Optional	4 Mwords
Signal Averaging Depth	2 to 128 samples
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Notes

From Joerger VTR10014 OEM product literature (100 MHz, 14-bit, memory, RF bandwidth, 18 W).

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

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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.