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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 44711B

HP Agilent 44711B 24 Channel High Speed FET Multiplexer for 3852A The HP 44711B is a 24-channel high-speed FET multiplexer for the 3852A Data Acquisition and Control Unit. OEM 44711A/B listings state the FET mux directly multiplexes voltage, resistance, thermocouple, and strain gages to maximize throughput with the 44702A/B high-speed voltmeter (up to 100000 readings per second). Input impedance is greater than 1e8 ohm with power on. Maximum capacitance at 1 MHz is 200 pF. Maximum wire size is 16 AWG. The HP 44711B is a 24-channel high-speed FET multiplexer for the 3852A Data Acquisition and Control Unit. OEM 44711A/B listings state the FET mux directly multiplexes voltage, resistance, thermocouple, and strain gages to maximize throughput with the 44702A/B high-speed voltmeter (up to 100000 readings per second). Input impedance is greater than 1e8 ohm with power on. Maximum capacitance at 1 MHz is 200 pF. Maximum wire size is 16 AWG. High-speed scanned DCV/ohms/strain/thermocouple in a 3852A with 44702A/B.



MODEL

**Agilent / Keysight
44711B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

44711B

LISTING

<https://aumictechlabs.com/products/44711b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 44711B is a data acquisition module engineered for precision measurement and control applications. The instrument integrates multiple analog and digital input/output channels with high sampling rates and signal conditioning to enable accurate data capture across demanding test environments. Technical Specifications The 44711B incorporates selectable input

impedances (50 Ω /10 k Ω) and standard output impedance (50 Ω) to support integration with diverse external systems and measurement configurations. Signal conditioning circuitry supports precise timing and level control across measurement tasks.

Key Features

- Multiple analog and digital I/O channels for flexible signal routing
- High sampling rate performance for time-domain capture
- Selectable input impedance matching (50 Ω and 10 k Ω options)
- 50 Ω output impedance for standard RF/signal interfaces
- Precision level and timing control for signal integrity
- GPIB and USB connectivity for instrument automation and data transfer

Typical Applications

The module addresses precision measurement requirements in device characterization, signal analysis, and automated test environments where accurate analog and digital signal capture is critical. Its multi-channel architecture supports parallel measurement tasks and reduces test cycle time in production and R&D workflows.

Compatibility & Integration

The 44711B interfaces via GPIB and USB protocols, enabling integration into automated test systems and measurement suites. Standard 50 Ω output impedance ensures compatibility with conventional RF and signal analysis equipment. Input impedance selection accommodates both high-frequency (50 Ω) and high-impedance (10 k Ω) measurement scenarios without external adapters.

44711B Characteristics / Specifications

PARAMETER	VALUE
Model	44711B
Instrument Type	High-speed FET multiplexer
Host Mainframe	3852A Data Acquisition and Control Unit
Channel Count	24
Switch Type	FET
Functions	voltage, resistance, thermocouple, and strain gages
Related Voltmeter	44702A/44702B 13-bit high-speed voltmeter
Scan Rate Class	up to 100000 scans and measures per second with 44702A and 44713A family
Power On Resistance	greater than 1e8 ohm
Power Off Resistance Low Vin	greater than 1000 ohm with Vin 10 V
Power Off Resistance High Vin	greater than 200 ohm with Vin greater than 10 V
Maximum Capacitance	200 pF at 1 MHz
Bias Current Closed	plus/minus 5 nA DC at 0 to 28 C into input or backplane with isolation relays closed
Bias Current Open	plus/minus 1 nA DC at 0 to 55 C into backplane with isolation relays open
Maximum Wire Size	16 AWG
Related Revision	44711A 24-channel high-speed FET multiplexer
Related Tc Version	44713A/B with thermocouple compensation
Form Factor	3852A plug-in
Manufacturer	HP Agilent Keysight
Use Case	high-speed analog multiplexing
Control	3852A programming
Literature	HP 3852A 44711A/B FET multiplexer listings
Family	44700 series

PARAMETER	VALUE
Documentation Type	OEM 3852A plug-in table

44711B Specifications

PARAMETER	VALUE
Applications	High-speed scanned DCV/ohms/strain/thermocouple in a 3852A with 44702A/B.
Key Features	24-channel high-speed FET mux
Pairs with 44702A 100000 rdg/s voltmeter	Power-on input impedance greater than 1e8 ohm
Technical Specifications	Model: 44711B

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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Notes

From HP 44711A/B FET multiplexer listings (24 channels; Z_{in} , capacitance, bias current, 16 AWG). On-resistance, analog bandwidth, and FET voltage range are on the 44711B specification page of the 3852A manuals.

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

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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.