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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 44727A

HP Agilent 44727A 4 Channel Voltage DAC for 3852A The HP 44727A is a 4-channel voltage digital-to-analog converter plug-in for the 3852A. OEM 3852A tables list 0 to 10.235 Vdc output and 75 ms settling time. It provides analog stimulus or setpoint outputs alongside 3852A measurement cards. 44726A in the same family is the 2-channel arbitrary-waveform DAC. Analog setpoints, actuator commands, and slow arbitrary levels in 3852A control systems. Related Arbitrary Dac: 44726A 2-channel arbitrary waveform DAC The HP 44727A is a 4-channel voltage digital-to-analog converter plug-in for the 3852A. OEM 3852A tables list 0 to 10.235 Vdc output and 75 ms settling time. It provides analog stimulus or setpoint outputs alongside 3852A measurement cards. 44726A in the same family is the 2-channel arbitrary-waveform DAC. Analog setpoints, actuator commands, and slow arbitrary levels in 3852A control systems. Related Arbitrary Dac: 44726A 2-channel arbitrary waveform DAC Operating Temperature Class: 3852A mainframe



MODEL

**Agilent / Keysight
44727A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

44727A

LISTING

<https://aumictechlabs.com/products/44727a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 44727A is a four-channel digital-to-analog converter module engineered for integration into the Agilent/Keysight 3852A Control Unit. Each isolated channel configures independently via jumper selection to deliver unipolar voltage, bipolar voltage, or unipolar current output. The module supports flexible interconnection - series connection expands voltage ranges

while parallel connection extends current capability. Voltage output channels feature remote sense capability to compensate for load-line drops and ensure accurate voltage delivery at the device under test.

Technical Specifications

Channels: 4 isolated channels per module

Output Configurations: Unipolar voltage, bipolar voltage, or unipolar current (jumper-selectable per channel)

Voltage Output: Remote sense available for accurate load voltage regulation

Current Output: Unipolar configuration

Interconnection: Channels support series connection for voltage expansion and parallel connection for current expansion

Key Features

- Jumper-configurable channel operation eliminates fixed-function limitations
- Isolated channels enable independent or interconnected operation without crosstalk
- Remote sense on voltage outputs maintains accuracy across varying load impedances
- Direct DC output - no modulation or signal conditioning required

Typical Applications

- Precision voltage and current sourcing in automated test equipment (ATE)
- Multi-axis control systems requiring isolated analog outputs
- Device characterization and stress testing with extended voltage or current ranges
- Integration into larger data acquisition and control frameworks

Compatibility & Integration

The 44727A installs directly into the Agilent/Keysight 3852A Control Unit mainframe. Module-level compatibility ensures seamless integration with the 3852A's control architecture and measurement subsystems.

44727A Characteristics / Specifications

PARAMETER	VALUE
Model	44727A
Instrument Type	Voltage DAC plug-in
Host Mainframe	3852A
Channel Count	4
Output Voltage	0 to 10.235 Vdc
Settling Time	75 ms
Related Arbitrary Dac	44726A 2-channel arbitrary waveform DAC
Form Factor	3852A plug-in
Manufacturer	HP Agilent Keysight
Use Case	analog control outputs
Control	3852A programming
Operating Temperature Class	3852A mainframe
Literature	HP 3852A 44727A plug-in table
Year Introduced Class	1986
Family	44700 series
Output Type	voltage DAC
System Role	analog stimulus from 3852A
Related Digital Out	44724A 16-channel digital output
Related Relay	44728A 8-channel relay actuator
Documentation Type	OEM plug-in table
Brand Lineage	Hewlett Packard Agilent Keysight
Resolution Class	10.235 V full scale listing
Load Class	DAC load per 44727A sheet
Operating temperature	Class: 3852A mainframe

44727A Specifications

PARAMETER	VALUE
HP Agilent 44727A 4 Channel Voltage DAC for 3852A	Overview
Applications	Analog setpoints, actuator commands, and slow arbitrary levels in 3852A control systems.
Four voltage DAC channels	0 to 10.235 Vdc
Technical Specifications	Model: 44727A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 3852A mainframe
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Operating Temperature Class	3852A mainframe
Literature	HP 3852A 44727A plug-in table
Year Introduced Class	1986
Family	44700 series
Output Type	voltage DAC
System Role	analog stimulus from 3852A
Related Digital Out	44724A 16-channel digital output
Related Relay	44728A 8-channel relay actuator
Documentation Type	OEM plug-in table
Brand Lineage	Hewlett Packard Agilent Keysight
Resolution Class	10.235 V full scale listing
Load Class	DAC load per 44727A sheet Notes From HP 44727A 4-channel voltage DAC listings (0 to 10.235 Vdc, 75 ms). Current drive, accuracy, and glitch energy are on the 44727A specification page.

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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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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.