

**Aumictech**

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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 35656A

HP Agilent 35656A 3565S Programmable DAC Module The HP 35656A is a programmable digital-to-analog converter module for the 3565S / 35650A system. OEM 3565S notes state that internal calibration of the hardware requires either a 102.4 kHz source module or a programmable DAC module; 35656A is that DAC. It occupies one 35650A slot and provides analog stimulus / cal source for the modular dynamic-signal hardware. 3565S internal calibration and analog source stimulus when a 102.4 kHz source module is not fitted. The HP 35656A is a programmable digital-to-analog converter module for the 3565S / 35650A system. OEM 3565S notes state that internal calibration of the hardware requires either a 102.4 kHz source module or a programmable DAC module; 35656A is that DAC. It occupies one 35650A slot and provides analog stimulus / cal source for the modular dynamic-signal hardware. 3565S internal calibration and analog source stimulus when a 102.4 kHz source module is not fitted. Satisfies internal calibration requirement



MODEL

**Agilent / Keysight
35656A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

35656A

LISTING

<https://aumictechlabs.com/products/35656a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 35656A is an obsolete programmable Digital-to-Analog Converter (DAC) module for signal generation within modular data acquisition systems. This DAC source module generates user-defined analog signals from digital data, delivering programmable voltage outputs

and current drive capability to external circuitry. The 35656A integrates into larger Agilent/Keysight chassis platforms via system bus communication, supporting flexible waveform generation through buffered data and precise sample timing control.

Technical Specifications

Output Characteristics Maximum voltage level: ± 10 Vpk Maximum current output: ± 50 mA Maximum output impedance: $1.2\ \Omega$ Programmable output attenuators: 0 dB, -20 dB, -40 dB

Data Buffering & Timing Programmable buffer sizes: 1 to 32,768 datawords Programmable sample interval (Δt): 4 μ sec to 64 sec

Key Features Programmable signal output from digital input data Low output impedance for direct external circuit driving Multiple attenuation settings for output level control Variable buffer allocation for diverse waveform lengths Flexible sample timing from microsecond to minute intervals System bus integration for modular platform deployment

Typical Applications Research and development signal generation Manufacturing test and measurement Control system signal sourcing Data acquisition system front-end

Compatibility & Integration Designed as a module within Agilent/Keysight data acquisition chassis systems. Communication occurs through system bus interface with clocking, trigger, and configuration control signals. Analog output delivered via dedicated connector. As an obsolete product, availability is limited to secondary market channels.

35656A Characteristics / Specifications

PARAMETER	VALUE
Model	35656A
Instrument Type	Programmable DAC module
Host Mainframe	35650A / 3565S
Calibration Role	internal calibration source alternative to a 102.4 kHz source module
Family	HP 3565S
Related Processor	35651C
Related Input	35652A
Related Mainframe	35650A
Form Factor	3565S plug-in
Manufacturer	HP Agilent Keysight
Use Case	cal/source DAC in 3565S
Control	3565S application software
Operating Temperature Class	3565S laboratory window
Power	from 35650A backplane
Literature	HP 3565S technical specifications 35656A
System Frequency	64 uHz to 102.4 kHz system class
Output Class	analog DAC stimulus
Slots	one 35650A slot
Documentation Type	OEM module table
Brand Lineage	Hewlett Packard Agilent Keysight
System Rule	each system needs a 102.4 kHz source or this DAC for internal cal
Time Domain	analog output for stimulus/cal
Documentation Source	3565S measurement hardware technical specifications
Operating temperature	Class: 3565S laboratory window

35656A Specifications

PARAMETER	VALUE
HP Agilent 35656A 3565S Programmable DAC Module	Overview
Applications	3565S internal calibration and analog source stimulus when a 102.4 kHz source module is not fitted.
Key Features	Programmable DAC for 3565S
Satisfies internal calibration requirement	35650A plug-in
Works with 35651 processor	Companion to 35652A inputs
Technical Specifications	Model: 35656A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 3565S laboratory window
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Operating Temperature Class	3565S laboratory window
Power	from 35650A backplane
Literature	HP 3565S technical specifications 35656A
System Frequency	64 uHz to 102.4 kHz system class
Output Class	analog DAC stimulus
Slots	one 35650A slot
Documentation Type	OEM module table
Brand Lineage	Hewlett Packard Agilent Keysight
System Rule	each system needs a 102.4 kHz source or this DAC for internal cal
Time Domain	analog output for stimulus/cal
Documentation Source	3565S measurement hardware technical specifications Notes From HP 3565S listings that name 35656A as the programmable DAC used for internal calibration. Full-scale voltage, update rate, and reconstruction filter are on the 35656A module sheet.

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

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.