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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) 8112A Pulse Pattern Generator Module, 3.8V, 330 MHz

Keysight / Agilent 8112A Pulse Pattern Generator Output Module, 330 MHz The 8112A is a 330 MHz / 3.8 V output module for the 8110A pulse pattern generator mainframe. Provides differential outputs with two selectable transition times (0.8 ns or 1.6 ns) into 50 Ω . The 8112A is a 330 MHz / 3.8 V output module for the 8110A pulse pattern generator mainframe. Provides differential outputs with two selectable transition times (0.8 ns or 1.6 ns) into 50 Ω .



MODEL

**Keysight / Agilent
8112A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8112A

LISTING

<https://aumictechlabs.com/products/8112a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) 8112A is a pulse pattern generator output module engineered for high-speed digital circuit testing and characterization. Operating at up to 330 MHz with output levels to 3.8 Vpp, this module installs in the Keysight 8110A mainframe to deliver dual-channel pulse and pattern generation with precise timing control. The 8112A supports multiple waveform types - pulse, NRZ, RZ, DNRZ, and PRBS patterns up to 14 bits - making it suitable for demanding test environments requiring glitch-free parameter adjustment and selectable edge transition times. Technical Specifications Maximum Frequency: 330 MHz Maximum Data Rate: 330.00 Mbps Output Voltage: 10 mVpp to 3.8 Vpp into 50 Ω Output Impedance: 50 Ω Level Window: -2.0 V to +3.8 V Output Accuracy: $\pm 2\%$ Output Resolution: 10 mV Transition Time: 800 ps or 1.6 ns

(selectable) Period Range: 3.03 ns to 999.9 s Pulse Width Range: 1.515 ns to (period – 1.515 ns) Variable Delay Range: 0 ns to (period – 3.03 ns) Double Pulse Delay Range: 3.03 ns to (period – width – 1.5 ns) Timing Resolution: 3.5 digits Pattern Depth: 16 kbit per channel Maximum PRBS Pattern: 14 Output Connectors: Differential BNC Power Consumption: 170 VA Key Features Dual-channel operation when installed in 81110A mainframe Selectable waveform modes: pulse, burst, and pattern Self-calibration for improved timing accuracy Triggerable or internal PLL operation Glitch-free changes to delay, frequency, transition time, width, and delay cycle PRBS, NRZ, RZ, and DNRZ pattern support Typical Applications High-speed digital circuit validation, serial data pattern generation, timing characterization, and protocol compliance testing. Compatibility & Integration Designed exclusively for integration with the Keysight 81110A Pulse Pattern Generator mainframe. Dimensions: 89 mm H × 426 mm W × 521 mm D. Weight: 21 lb. Requires 100–240 VAC ±10%, 50–60 Hz power input.

Features & description

From manufacturer datasheet

Features

- Frequency range: 1 mHz to 330 MHz
- Amplitude: up to 3.8 Vpp into 50 Ω
- Output impedance: 50 Ω
- Outputs: differential (BNC)
- Transition times: 0.8 ns or 1.6 ns selectable
- Transition (detailed): ≤ 600 ps for Vpp ≤ 1 V; ≤ 900 ps for Vpp > 1 V; ~ 450 ps typ. ECL 20/80
- Pulse width: from 1.515 ns to (period – 1.515 ns) class
- Double-pulse / delay ranges per 81100 family tables
- Modes (mainframe): pulse, burst, pattern; PRBS/NRZ/RZ/DNRZ
- Pattern memory (81110A system): 16 kbit/channel class
- Host mainframe: 81110A (not for internal channel addition)

Applications

- High-speed pulse/pattern stimulus to 330 MHz
- Differential ECL/PECL-class digital stimulus
- Dual-module 81110A configurations (1 or 2 channels)

81112A Characteristics / Specifications

PARAMETER	VALUE
Model	81112A
Manufacturer	Keysight / Agilent
Instrument Type	Pulse Pattern Generator Output Module
Alias	81112A; Agilent 81112A; Keysight 81112A
Frequency max	330 MHz
Amplitude max	3.8 Vpp
Output Z	50 Ω
Transition select	0.8 / 1.6 ns
Outputs	differential (BNC)
Host	81110A Notes Specs from Agilent 81100 Family Pulse Pattern Generators data sheet (81110A + 81112A column). Confirm mainframe firmware and channel count.
Frequency range	1 mHz to 330 MHz
Amplitude	up to 3.8 Vpp into 50 Ω
Output impedance	50 Ω
Transition times	0.8 ns or 1.6 ns selectable
Transition (detailed)	≤ 600 ps for Vpp ≤ 1 V; ≤ 900 ps for Vpp > 1 V; ~ 450 ps typ. ECL 20/80
Pulse width	from 1.515 ns to (period – 1.515 ns) class
Modes (mainframe)	pulse, burst, pattern; PRBS/NRZ/RZ/DNRZ
Pattern memory (81110A system)	16 kbit/channel class
Host mainframe	81110A (not for internal channel addition)

81112A Specifications

PARAMETER	VALUE
Applications	- High-speed pulse/pattern stimulus to 330 MHz
Key Features	- Frequency range: 1 mHz to 330 MHz
Technical Specifications	Model: 81112A
Notes	Specs from Agilent 81100 Family Pulse Pattern Generators data sheet (81110A + 81112A column). Confirm mainframe firmware and channel count.

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	81112A
Manufacturer	Keysight / Agilent
Instrument Type	Pulse Pattern Generator Output Module
Alias	81112A; Agilent 81112A; Keysight 81112A

Specifications

PARAMETER	VALUE
Frequency max	330 MHz
Amplitude max	3.8 Vpp
Output Z	50 Ω
Transition select	0.8 / 1.6 ns
Outputs	differential
Host	81110A

Notes

Specs from Agilent 81100 Family Pulse Pattern Generators data sheet (81110A + 81112A column). Confirm mainframe firmware and channel count.

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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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.