

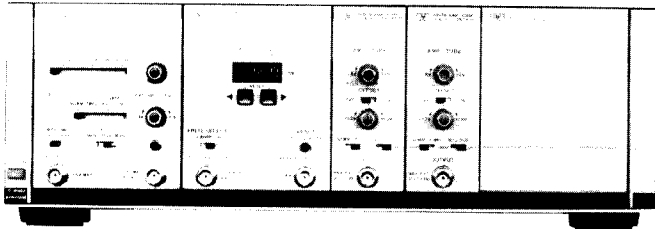
PULSE GENERATORS

Configurable Pulse/Data Stimuli

HP 8080A Series

Example: HP 8080A SO4

- 1 GHz, 300 ps transitions
- Interchannel delay



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|-------------------------------|--------------------------------|--|-----------------------------|
| HP 8091A Rate Generator | HP 8092A Delay Generator | CHA CHB HP 8093A Output Amplifiers | HP 15400A Blank Panel |
|-------------------------------|--------------------------------|--|-----------------------------|

Research and development in advanced technologies such as subnanosecond ICs, fiber optics and nucleonics, require fast pulses for thorough characterization. HP 8080A configurations can generate simultaneous 1 GHz clock and simulated NRZ data for testing today's fastest memories. (see 8080A#S04, above). Another example (8080A#D03) is simultaneous normal and complement data with up to 64 bits and fast 300 ps edges.

A series of Multi-channel Data and Pulse Generator configurations are available, and further variations can be factory-systemized on request.

Full details on all the modules and some of the factory-systemized configurations are contained in the HP8080A data sheet. Users who wish to do their own systemizing should request the Systemizing Guide (publication number 5952-9546).

Leading Characteristics (50-ohm load)

HP 8080A SO4

Timing

Repetition rate: 100 Hz – 1 GHz.

Interchannel delay: ± 9.9 ns in 0.1 ns steps.

Channel B divider: 0.5 f selectable for simulating NRZ data.

Width: Square wave.

Modes: Int, Ext Width, Gate, Manual.

Independent 50-ohm Outputs

Amplitude: 0.6 V to 1.2 Vpp.

Offset: ± 1.2 V.

Transitions times (10% to 90%): <300 ps.

Polarity: selectable

Format: Normal/Complement selectable

HP 8080A DO1

Timing

Repetition rate: 10 Hz–300 MHz.

Width: square wave (RZ) or NRZ.

Modes: Int, Ext/Manual Width.

Data cycle modes: Ext/Man Single and Gated Cycle, Auto Cycle.

Data: Serial, 16/32/64 bit selectable.

Simultaneous Normal and Complement 50-ohm Outputs

Amplitude: 0.2 V to 2 V.

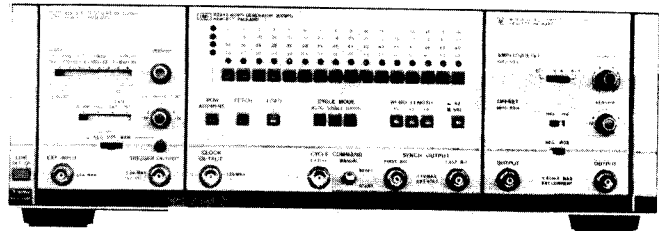
Offset: ± 1 V.

Transition times (10% to 90%): <800 ps.

Polarity: selectable.

Example: HP 8080A DO1

- 300 MHz, 800 ps transitions
- Manually programmable data



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|----------------------------|----------------------------|------------------------------|
| HP 8081A Rate Generator | HP 8084A Word Generator | HP 8083A Output Amplifier |
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General

Operating temperatures: 0°C to 55°C.

Power: 115/230 V rms; + 10%, -22%; 48 to 66 Hz, 200 VA max.

Weight: (typical, HP 8080A Mainframe plus full complement of modules) 9.4 kg (16.6 lbs) net; 19.7 kg (43.3 lbs) shipping.

Size: (HP 8080A Mainframe): 133 H x 426 W x 422 mm D (5.24" x 16.77" x 16.61").

Ordering Information

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|---|----------|
| HP 8080A Mainframe | \$3,750 |
| Opt. 907: Front handle kit (P/N HP5061-9689) | add \$55 |
| Opt. 908: Rack flange kit (P/N HP5061-9677) | add \$33 |
| Opt. 909: Opt 907, 908 combined (P/N HP5061-9683) | add \$82 |

Opt. Series S: Single- and Multi-Channel Pulse Generator systems

ask for information

Opt. Series D: Single- and Multi-Channel Data Generator systems

ask for information

Opt. W30 Two additional years of Return-to-HP service

ask for info and prices

| | |
|--|-----------|
| HP 8081A 300 MHz Rate Generator module | \$1,850 |
| HP 8083A 300 MHz Output Amplified module | \$1,850 |
| HP 8084A 300 MHz Word Generator module | \$5,250 |
| HP 8091A 1 GHz Rate Generator module | \$5,500 |
| HP 8092A 1 GHz Delay Generator module | \$4,400 |
| HP 8093A 1 GHz Output Amplifier module | \$3,000 |
| HP 8093A Opt H01: Variable-width operation (requires HP 8092A) | add \$480 |

Additional manuals: Opt 910, per module

add \$28

Accessories Available

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| HP 15400A Blank Panel, ¼ mainframe width | \$140 |
| HP 15401A Blank Panel, ½ mainframe width | \$110 |
| HP 15402A BNC Feedthru panel, ½ width | \$300 |

Pulse Generator Accessories

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| HP 15104A/15115A | HP 15116A |
| HP 15104A Pulse Adder/Splitter dc to 2 GHz | \$120 |
| HP 15116A Pulse Inverter 3 MHz to 2 GHz | \$230 |
| HP 15115A Pulse Splitter/Inverter 3 MHz to 2 GHz | \$230 |

☛ Fast-Ship product — see page 734.