

INTRONIX PC-Based Test and Measurement

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LA1034 LogicPort Specifications and Characteristics

[Specifications](#)

Sampled channels: 34

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Timing mode sample rate: 1KHz to 500MHz (uses internal clock)

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State mode sample rate: 0 to 200MHz (clock provided by circuit under test)

Sample buffer: 34 x 2048 samples

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Maximum sample compression: 2³³ to 1 (sample rates to 200MHz)

Trigger sequencer: 250MHz max, 4ns minimum pulse width

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Trigger capability:

Edges - Rising, Falling, Either (multiple channels, any combination)

Patterns - True, False, Entered, Exited (across any / all channels)

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Bus Value - Equal, Not Equal, Less Than, Greater Than, In Range, Not in Range

Occurrence Count - Range of 1 to 1,048,576 Consecutive or Cumulative

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Duration - Equal, Less Than, Greater Than, Within Range (samples or time)

Input impedance: 200K Ohms, paralleled by <5pF

Frequency counter range: 300MHz with 10Hz resolution, 4 channels

Threshold range: adjustable +6 to -6 volts with 50mv resolution

Threshold accuracy: +/- (100mV + 5% of setting)

Channel to channel skew: 0.6ns typical, 1.0ns max

State mode Setup/Hold times: 2.0/0ns, window adjustable +/-2.5ns

Input sensitivity: 0.25Vpp @50MHz, 0.5Vpp @150MHz, 0.8Vpp @250MHz

Input dynamic range: 10 volts peak-peak

Maximum input: +/-40 volts DC, 15 volts peak-peak pulse amplitude

Timebase accuracy: +/-0.005% over full temperature range

Input Probe: Teflon insulated leads terminated with female contacts compatible with 0.025"-0.030" round or square pins.

Power supply current: 200 milliamps max (supplied by USB)

Temperature range: operating +5 to +50C, storage -10 to +65C

Interpreted Protocols (included):

Asynchronous Serial (RS232, RS422 and RS485 to 25Mbps)

Synchronous Serial (SPI, PS2 and proprietary formats)

Inter-Integrated-Circuit (I2C)

CAN 2.0A and 2.0B

Synchronous Parallel (Quad/multi-IO SPI and proprietary formats)

1-Wire (Dallas/Maxim devices/iButton)

ISO7816-3 (Smart Card and SIM devices)

Minimum system requirements:

Pentium II or better (400MHz or faster recommended)

32MB available memory

20MB available disk space

800 x 600 (1024 x 768 recommended) standard DPI display

USB 1.1 or 2.0 port

The LA1034 is compatible with the following operating systems:

Windows 98
Windows 98 Second Edition
Windows ME
Windows 2000
Windows XP (32 and 64 bit versions)
Windows Vista (32 and 64 bit versions)
Windows 7 (32 and 64 bit versions)
Windows 8 (32 and 64 bit versions except ARM-based)

Specifications subject to change without notice

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