

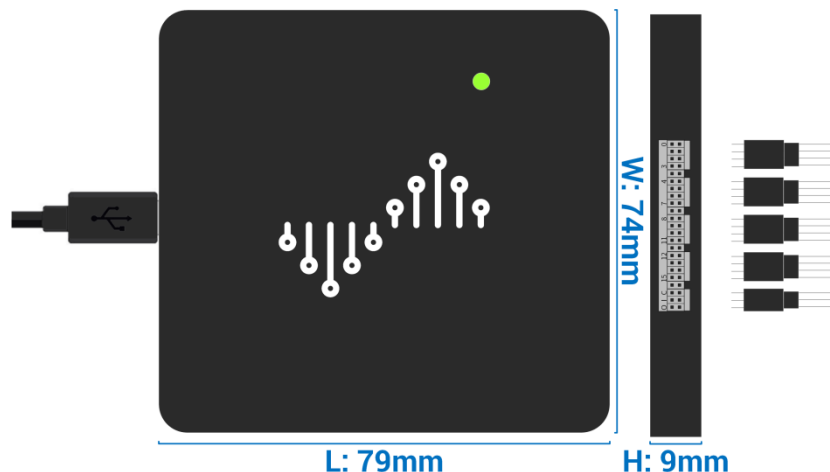


# DSLogic U3Pro16

## USB-based Logic Analyzer

### Key Features

- 16 digital channels
- USB 3.0 interface
- Up to 1GHz sample rate
- Up to 2Gbits hardware memory
- Up to 16G sample depth (stream mode)
- Adjustable Threshold (0.1V Step)
- Shielded fly wires
- Unibody aluminum case
- 1-year warranty



### Connectivity

- USB Type-C interface (USB3.0 device port)
- 1.27mm dupont female connector (Host device)
- 2.54mm dupont female connector (Fly wires)

### Power Source

- Power source voltage:  $5V_{DC} \pm 5\%$
- Power consumption: 2.5W maximum

### Input output ports

	Direction	Descriptions	Protected Voltage Range
USB 3.0 port	InOut	Connect to host computer	4.75v ~ 5.25v
CH0 ~ CH15	Input	Connect to under test signals	-30v ~ 30v (with fly wires)
CK	Input	Clock input at state sample mode	0v ~ 3.3v (Max 50MHz)
TI	Input	Reserved	0v ~ 3.3v
TO	Output	External trigger signal output	--

### Designed to make your work enjoyable

DSLogic U3Pro16 is an USB-based logic analyzer, which has a portable size (79x74x9mm), but powerful performance (up to 1GHz sample rate, USB 3.0 interface). With the easy-to-use and cross platform software, DSView, you can use your favorite computer to debug and analysis your circuits, observe the digital wave and decoder various protocols at anywhere and anytime.

## Technical Specifications

### Input Voltage and Thresholds

Safe voltage range: -30v ~ 30v (with fly wires)

Threshold voltage: 0v ~ 5v (0.1v step)

Work with most of logic voltage level (such as: 5v, 3.3v, 2.5v, 1.8v, 1.5v, 1.2v, 1.0v, etc.)

ESD protected

### Input Impedance

250K  $\Omega$  // ~13pF

### Max Sample Rates

Buffer mode	Stream mode
8 channels: 1GHz	3 channels: 1GHz
16 channels: 500MHz	6 channels: 500MHz
--	12 channels: 250MHz
--	16 channels: 125MHz

### Max Sample Depth

Buffer mode (without RLE compression): 2G / num. of channels

Buffer mode (with RLE compression): 16G / num. of channels

Stream mode: 16G

### Error/Accuracy

Minimum acquisition pulse: 2ns

Acquisition Accuracy:  $\pm$  sample interval (for example:  $\pm 10\text{ns}@100\text{M}$  sample rate,  $\pm 1\mu\text{s}@1\text{M}$  sample rate)

### Noise Immunity

Each channel provides independent shielding ground.

## System Requirements

Windows XP, Vista, Win7, Win8 & Win10

Mac OS X 10.12 or above

Linux: recent Ubuntu, Fedora, Arch, etc.

USB 3.0 Host port

## Safety & Caution

- *If you are using a mains powered (grounded) host computer, the ground terminals of DSLogic are also connected to the real ground, you must avoid to connect any ground terminals to HOT DUTs.*
- *DSLogic has the overcurrent protection, but we recommend that you should try to avoid any short circuit event. After all the ability of upstream USB port is an uncertain factor.*

## Revision History

*The following table shows the revision history for this document.*

<i>Date(DD/MM/YY)</i>	<i>Version</i>	<i>Revision</i>
20/06/20	v1.1	Add CK max frequency
18/02/20	v1.0	Initial release (based on DSView v1.10)