



EXCLUSIVE EUROPEAN DISTRIBUTOR

Light. Time. Discovery.

NexAtom instrumentation,
with Precisometer in Europe.

Time tagging. Custom timing boards.
External-cavity diode laser hardware.



UTT810

The 8-channel universal time tagger.
See the timing story in every event.



Multiple views of one UTT810

8

input channels

1 ps

time bin width

<10 ps

stated timing jitter

Price-competitive instruments. Application-led configurations.

Tell us what you need to measure. We will help define the right configuration and quotation.

UNIVERSAL TIME TAGGING

UTT810, clearly specified.

FPGA-based timing for coincidence, histogram and correlation measurements. Published manufacturer values are grouped below for easier system planning.

Parameter	Published UTT810 specification
Inputs	8 channels; 0-5 V input range; 50 ohm impedance
Timing	1 ps time bin width; <10 ps stated jitter; 4 ns dead time
Threshold / hysteresis	0-2.5 V threshold, 1 mV steps; 1-100 mV hysteresis
Physical delay	1 ps-4 ns
Clock synchronization	External 10 MHz TTL clock, GPIO pin 2
Data interface	USB 3; published transfer speed >300 MB/s
Histogram / coincidence	Minimum 1 ps histogram bin; multi-stop support; up to 8-channel coincidence histograms
Correlation	Linear and multi-tau auto/cross correlation; minimum 8 ns bin
Software	GUI/API; save absolute time tags; Windows installer

Resolution is not jitter

The 1 ps bin sets the histogram grid. The <10 ps jitter figure is a separate manufacturer specification, without a stated statistical convention on the product page. Detector and signal-chain timing also matter.

Plan the complete measurement

Confirm pulse polarity, width, amplitude under 50 ohm loading, edge quality and the expected count rate before connecting a detector. USB bandwidth and dead time are not sustained event-rate guarantees; ask for validation of your acquisition mode and configuration.

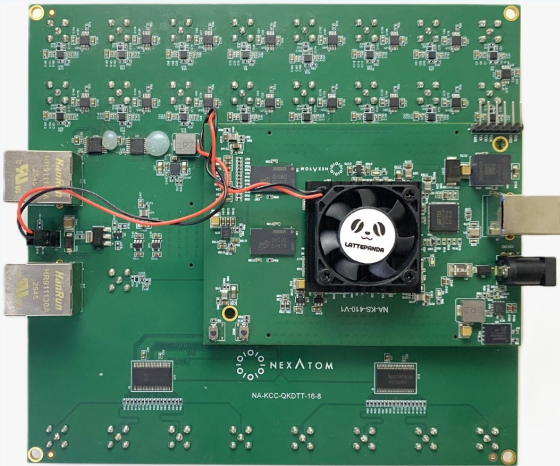
Specifications and original product imagery: nexatom.in/products/time-taggers/utt810/

Manufacturer values checked 24 October 2026. Confirm the ordered configuration in your quotation.

CUSTOM TIMING PLATFORMS

More channels. Your system.

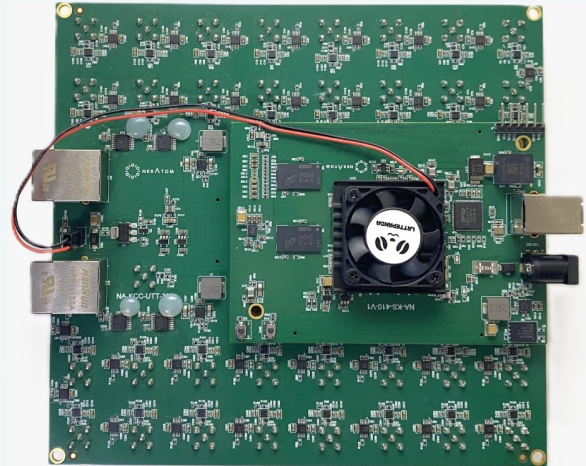
Both currently published NexAtom timing boards are available for custom integration discussions. Choose the architecture around the experiment.



16 inputs / 8 outputs

Timing with output control

A custom board for multi-channel timing and synchronized output workflows. Timing, output behavior and software integration require configuration confirmation.



32 channels

Higher channel density

A custom board described by NexAtom as 10 ps class. The public page does not define that timing metric; request the detailed specification for your application.

CUSTOMIZATION IS POSSIBLE

Start with the signals and the workflow.

Share your channel count, input pulses, output timing, synchronization, host software, enclosure and integration constraints. Precisometer can discuss a tailored system with NexAtom; scope and performance are agreed in the quotation.

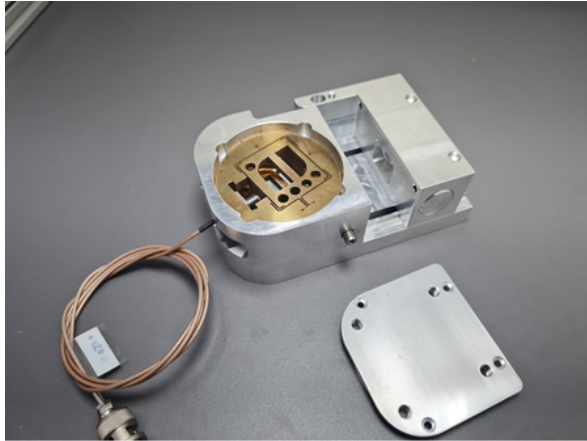
16-in / 8-out board: nexatom.in/products/time-taggers/utt-16in-8out/

32-channel board: nexatom.in/products/time-taggers/utt32/

Photos show manufacturer examples. Board specifications are independent of the UTT810 specification.

EXTERNAL-CAVITY DIODE LASER HARDWARE

Built around the experiment.



Tunable light for AMO

Explore ECDL hardware and laser control for atomic physics, spectroscopy and quantum sensing. NexAtom publishes tunable laser systems, control interfaces and custom integration options.

Specify wavelength, power, linewidth, tuning range and stabilization needs. Numerical performance depends on the configuration and must be confirmed.

FROM INDIA, WITH RESEARCH ROOTS AT RRI

NexAtom is an Indian instrumentation company. Raman Research Institute in Bengaluru identifies it as its first spin-off and reports a license for tunable laser technology. Precisometer is NexAtom's exclusive European distributor.

A price-competitive route to research instrumentation

Ask for an application-specific quotation. Compare the full configuration, integration and support requirements; no fixed price or savings percentage is implied.

[Discuss your configuration](#)[Software and SDK downloads](#)

precisometer.com/nexatom | info@precisometer.com

Windows software and SDK preview are supplied by NexAtom. Follow the manufacturer pages for the current release and integration requirements.

Laser hardware and imagery: nexatom.in/products/laser-systems/

Research origin: Raman Research Institute, 16 October 2024 - rri.res.in/hi/node/1454

Windows installer: nexatom.in/downloads/utt810/ | SDK preview: nexatom.in/downloads/

Prepared by Precisometer. Product information verified 24 October 2026; confirm availability and final configuration.