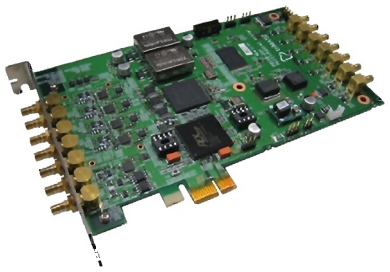


Photon Tracker

Key Features

- *High repetition frequency, high sensitivity and high resolution time*
- *Multi-input channels up to 12*
- *Compact size (half-length, full-hight PCI Express board)*

Applications

- *LIDAR (light detection and ranging) systems*
- *Time-resolved optical spectroscopy and tomography (e.g.: time-resolved fluorescence spectroscopy for DNA detection)*

The high performance multi-channel scaler board is ideal for short-range LIDAR systems due to its high repetition frequency, high sensitivity and high resolution time characteristics.
The board with multi-input channels up to 12 can also be applied to long-range LIDAR systems.

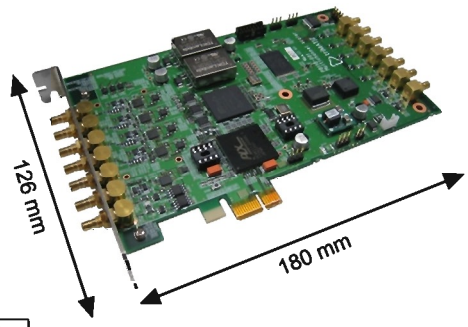
The main characteristics are:

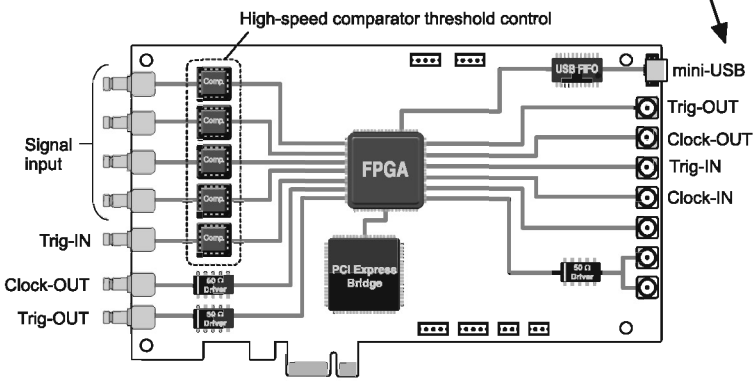
- Retaining the continuity in the signal processing with fast transfer rates due to a digital control method using a FPGA,
- High-speed comparator with adjustable discriminator level,
- Compact size: half-size, full-hight PCI Express board,
- Available PG(Pulse Generator) function for Trig-OUT.

Specifications

Bin width range	5 ns ~ 10.486 ms 5 ns x 2^n (n = 0 to 21)
Number of bins	Max. 32750
Max. count	65535
Number of input channels	4 / 8* / 12*
Max. repetition frequency	100 kHz (depends on DIN width)
Power supply voltage	+ 12.0 V (Pc: 3.6 W) + 3.3 V (Pc: 6.0 W)
Operating ambient temperature	10 °C ~ 40 °C
Dimensions (Board size, exclusive projection portion)	half-length, full-hight PCI Express board 111.15 mm x 167.65 mm

* Up to 8 or 12 channels due to the possibility of synchronization between two or three boards.





Ordering information

MSB-01

Contact information

Trimatiz Limited
801, La Pacifique B,
4-7-12 Minamiyawata, Ichikawa,
272-0023 Chiba, JAPAN

TEL: +81-47-379-4400
FAX: +81-47-370-0010
E-mail: info@trimatiz.com
URL: www.trimatiz.com

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Control the light