

WL-IPD-4A

Digital Quad Integrating Photodiode with USB

Features

- **simultaneous** integration of up to **4 inputs** at up to **1kHz**
- each measurement includes **signal** and **background** acquisition
- gate time **8 μ s** to **64 μ s** with internal timer
- **18 bit** resolution
- high accuracy, low drift
- tunable full range **12pC** to **350pC**
- easy-to-use **USB interface**
- external trigger rising or falling edge
- small form factor: 4x6 cm²
- Affordable pricing

Applications

- laser pulse monitoring and signal measurement in systems up to 1kHz
- digital 2 or 4 segment photodiodes
- shot-to-shot pulse noise measurements

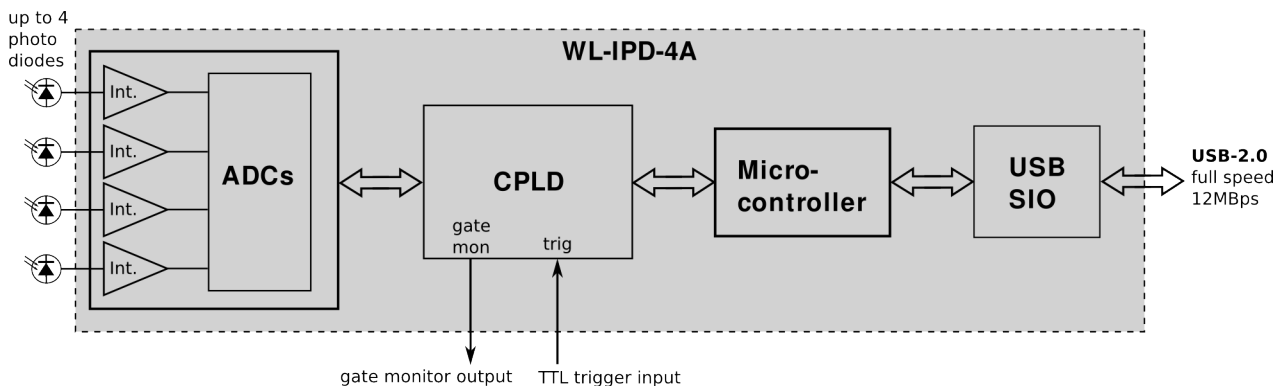
General Description

The WL-IPD-4A is a highly-integrated true gated charge integrator to be attached directly to up to 4 photo diodes. After a trigger pulse, all 4 inputs are integrated simultaneously for an adjustable amount of time (boxcar integrator). The measurement is digitized with integrated 20bit analog-to-digital converters and transferred over the USB link to a computer. The IPD-4A can continuously acquire 4 signal and 4 background measurements and transfer them over the USB link at a rate of up to 1kHz. This allows shot-to-shot measurements in systems with up to 1kHz repetition rate.

The USB interface registers itself as virtual serial port (VCP) for direct and easy integration into lab control software such as LabView.

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Structure



PRELIMINARY DATA SHEET

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