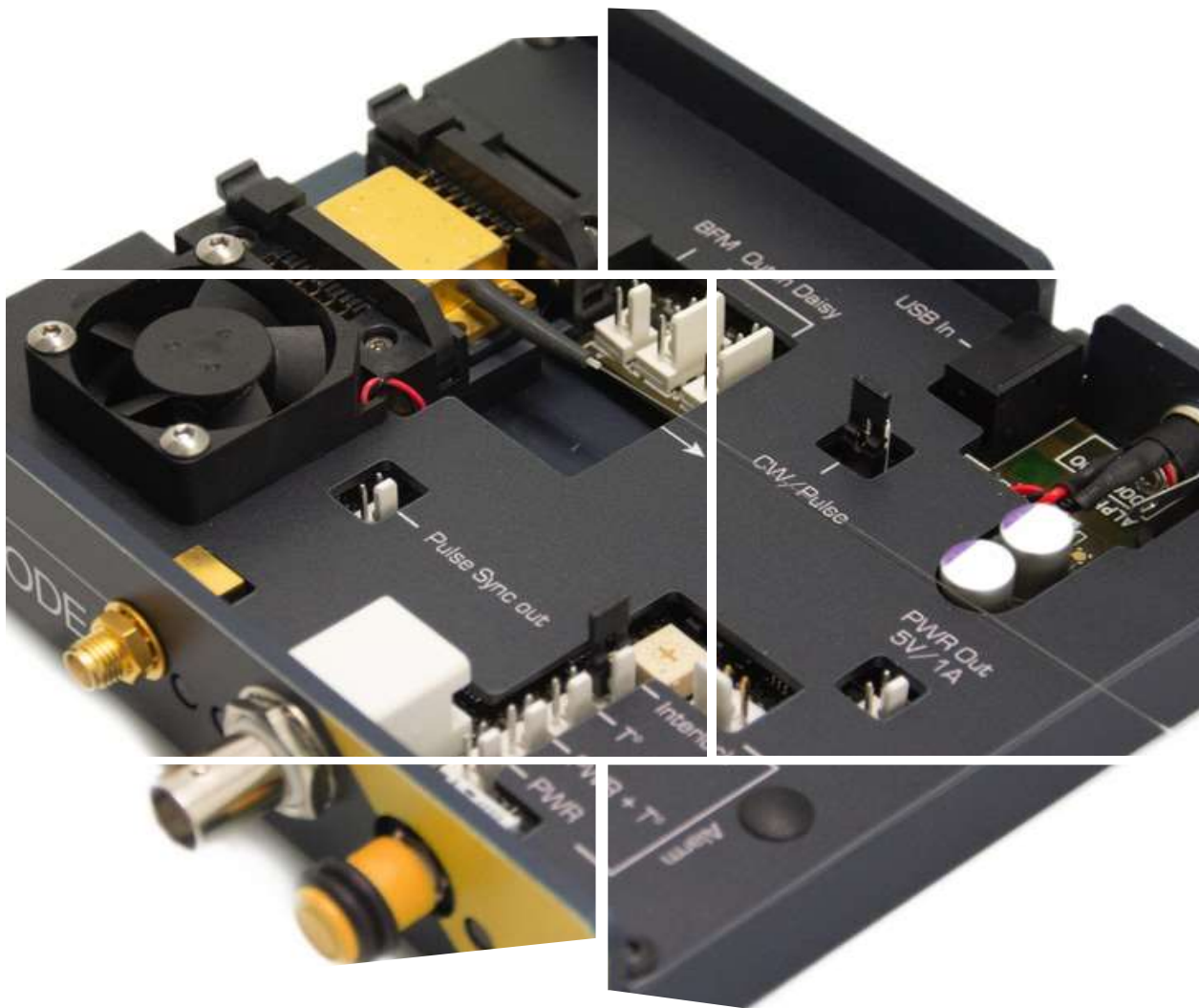


CCS

Precision Pulsed Laser Diode Driver with TEC Controller



Aero  ODE

CCS

Precision pulsed laser diode driver and TEC controller

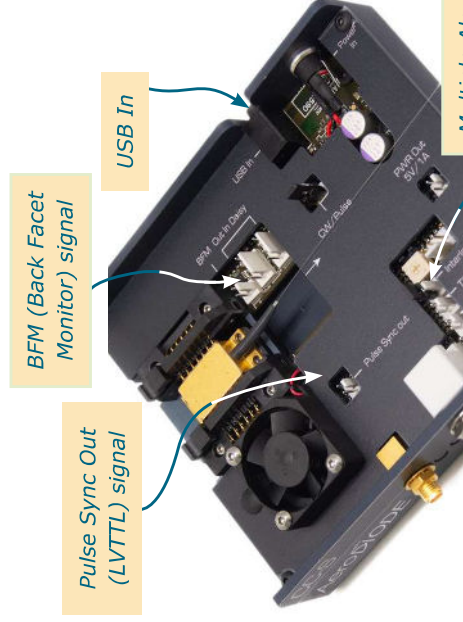
with Integrated Butterfly Mounting Sockets and USB



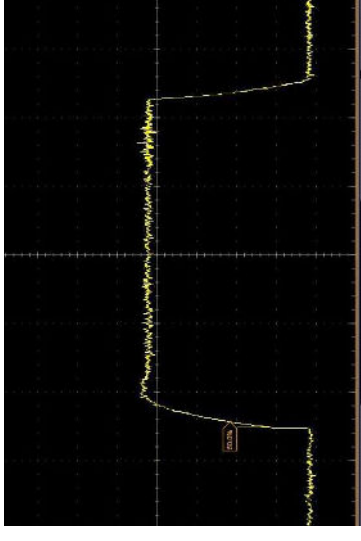
Designed for precision seed pumping applications, AeroDIODE laser diode pulsing control electronics and mounting modules are optimized for single-shot to CW performance with pulse width down to <1 ns. These complete control electronics and mounting modules deliver precision pulses which are generated internally by an on-board pulse generator, or on demand from an external TTL signal.

Key features:

- Up to 1500 mA peak current (3500 mA or 9000 mA with optional versions)
- User set pulse width from 500 ps to CW (internal pulse generator – optical pulse width depends on laser diode)
- Up to 4 MHz repetition rate (optional 10 MHz / 250 MHz)
- Integrated TEC controller
- Down to < 500 ps rise/fall time
- USB, manual, & analog (0-5 V) signal peak power adjustment
- Smart control (USB interface to drive simultaneously several modules from ALPhANO's laser electronics series)
- Compatible with any laser diode types (with or without mounting sockets) : TO, VCSEL, Butterfly type 1, type 2 etc.



Technical Sp



100 ns pulse / 1064 nm FP / CCS-std

Electronic and Optical

Output current - Pulse regime (up to

Output current - CW regime (up to)

Output Voltage range

Laser diode T° range

Pulse duration (Ext pulse trigger)

Pulse duration (Internal pulse generator)

Typ rise/fall time (TO/Butterfly/VCSEL) ⁽¹⁾

Typ min pulse duration (Butterfly) ⁽¹⁾

Internal rep rate adjustment



Aero ODE

Institut d'optique d'Aquitaine
Rue François Mitterrand
33400 Talence - France

Ph. +33 (0)6 27 69 41 52

www.aerodiode.com