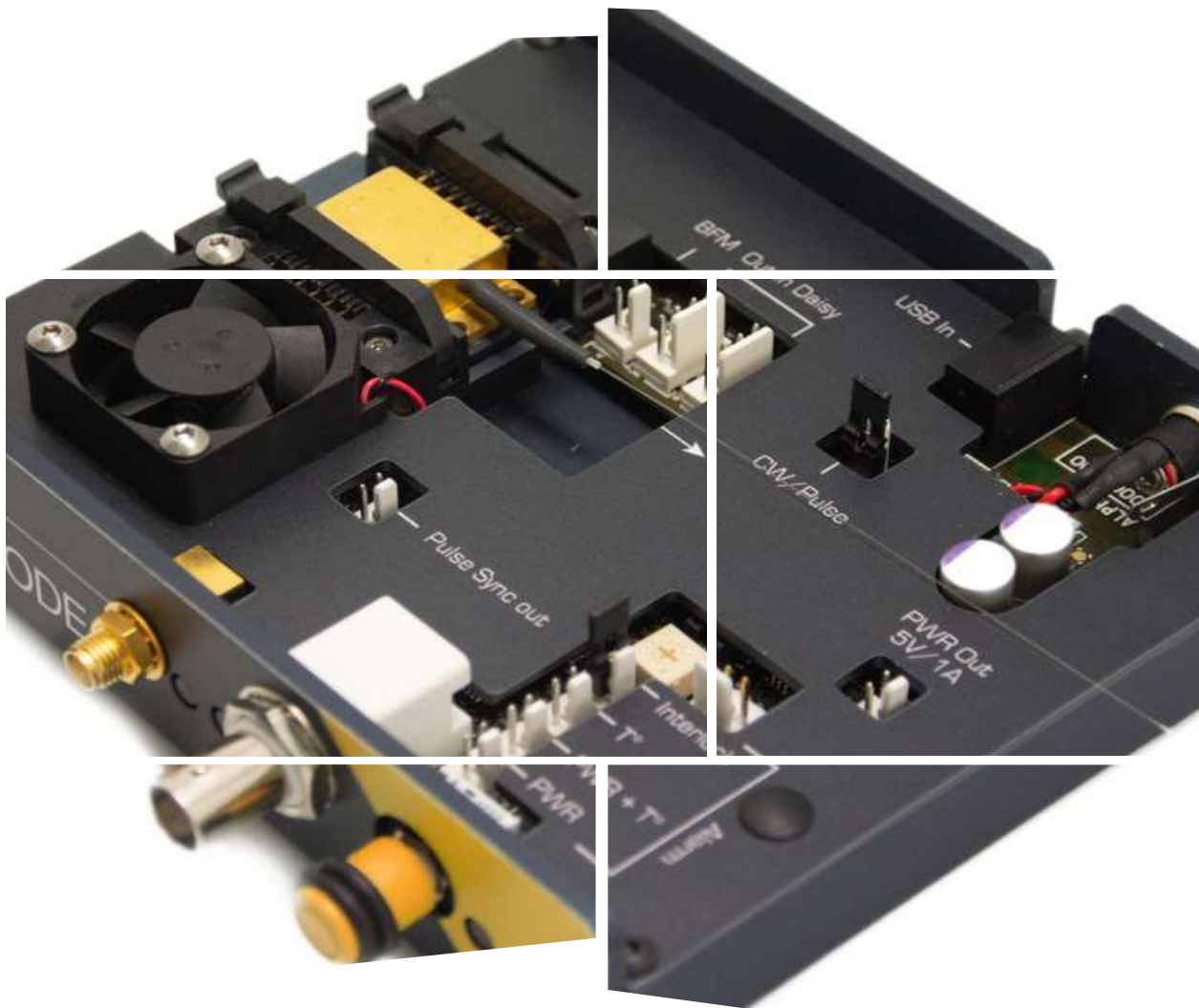


# CCS

Precision Pulsed Laser Diode Driver  
with TEC Controller



Aero  ODE

# CCS

## Precision pulsed laser diode driver and TEC controller

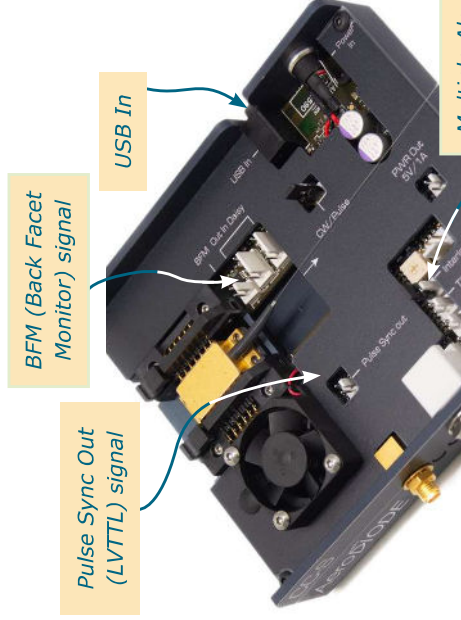
### with Integrated Butterfly Mounting Sockets and USB



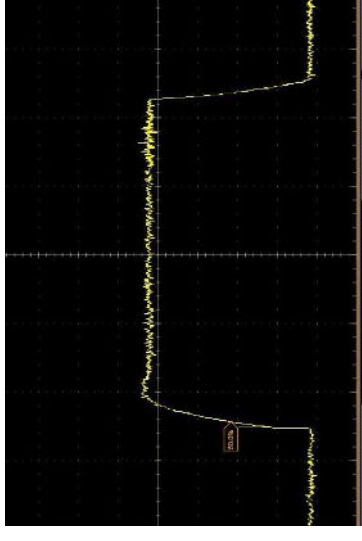
Designed for precision seed pumping applications, AeroDIODE laser diode pulsing control electronics and mounting modules are optimized for single-shot to CW performance with pulse width down to <1 ns. These complete control electronics and mounting modules deliver precision pulses which are generated 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) <sup>(1)</sup>

Typ min pulse duration (Butterfly) <sup>(1)</sup>

Internal rep rate adjustment



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