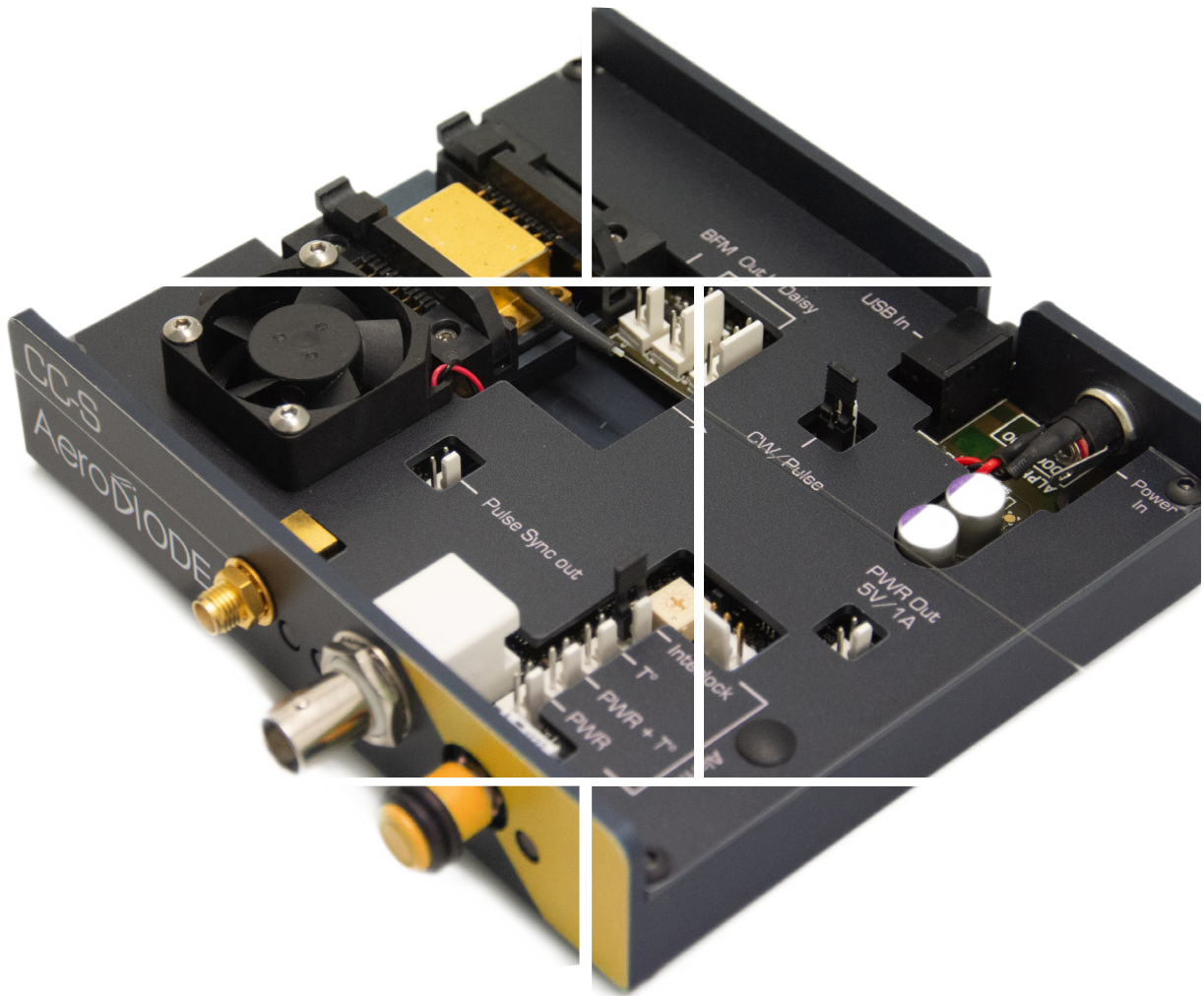


830 nm Laser diodes & Turn-key solutions



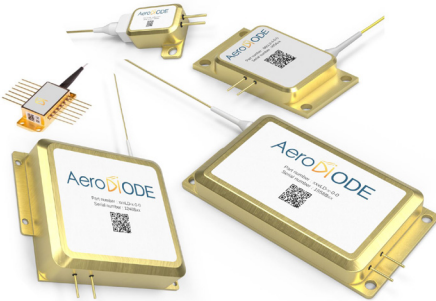
Aero*Di*ODE

830 nm laser diode

Choose your own fiber-coupled laser diode + turn-key driver solution

Standard singlemode or multimode laser diodes in the ~830 nm wavelength range are offered as stock items or combined with a CW or pulsed turn-key laser diode driver.

1st Choose your laser diode :



Diode model	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber (or eq.)	Emisison Bandwidth (typ)	Package (mm)
1	200 mW	400 mW	Butterfly single mode	830 ± 3 nm (830 nm ± 1 nm with FBG option)	Hi 780 PM 780 (option)	~1 nm (0.2 nm with FBG OPTION)	14 pin Butterfly-type 1
2	600 mW	600 mW	Butterfly MULTI-MODE with VBG	830 ± 0.5 nm	Multimode 106 µm NA=0.22	< 0.1 nm	
3	2 W	2 W	Multimode single emitter	830 ± 3 nm		3.5 nm	30.9*17*7.7
4	20 W	20 W	Multimode multi-emitter			~ 4.5 nm	123.5*50*22

3rd Choose your product form factor : OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS :

CCS-CW
CCS-std/HP

➤ Open-frame driver for CCS-CW, CCS-std and CCS-HP electronics Boards for single mode diodes

SHAPER

➤ Open-frame driver for «Shaper» electronic Board for single mode diodes

CCM

➤ «CCM» Open-frame driver for Multimode diodes

2nd Choose your Driver performance :

	830 nm Laser Diode version	LASER DRIVER VERSION :			
		CW Driver (for singlemode diodes : «CCS-CW» is the open driver and CCSI-CW is the integrated version)	Pulse & CW Driver (from 1 ns to CW : «CCS-std» is the open driver and CCSI-std is the integrated version)	User design pulse shape Driver («Shaper» open driver / «Shaper-I» integrated version) from 0.5 ns to 8 µs	Multimode diode Driver (High power driver for 10 to 150 W diodes : CCM is the open version, CCMI is the integrated version)
Output Power - CW / Pulse (Typical values)	1- Butterfly singlemode	200 mW / No	200 mW / 400 mW	No / 400 mW	Not compatible
	2- Butterfly Multimode	600 mW / No	600 mW / 600 mW	No / 600 mW	Not compatible
	3- Multimode : 2 W / 20 W	Not compatible			2 W / 2 W 20 W / 20 W
Laser diode T°	Any	15 - 50 °C			15 - 40 °C
Pulse duration (Ext. trigger)		CW only	0.5 ns - CW	0.5 ns - 8 µs	10 µs - CW
Pulse duration (Internal pulse generator)			0.5 ns - 500 ns		No
Typ rise/fall time ; Min optical pulse duration (Butterfly package diodes)			3 (ns/A) ; 1.5 ns	< 1ns/A ; 1.5 ns	few µsec
Internal rep rate adjustment			1 Hz - 4 MHz (250 MHz optional)	1 Hz - 20 MHz	No
Temporal Jitter			< 25 ps	< 2 ns	
Interface/GUI/libraries		USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python			

INTEGRATED VERSIONS :

CCSI-CW/ std/HP/HPP

➤ Integrated version for CW, std and HP electronics Boards

SHAPER-I

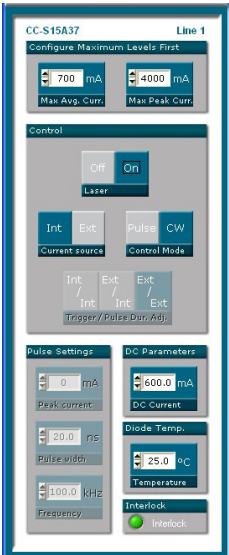
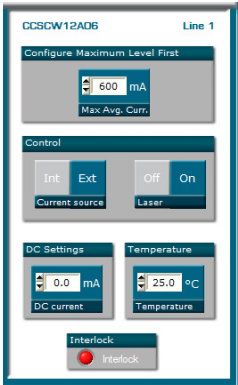
➤ Integrated version for Shaper electronics Board (single mode diodes)

CCMI

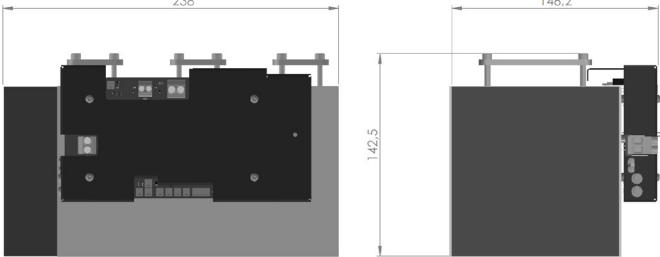
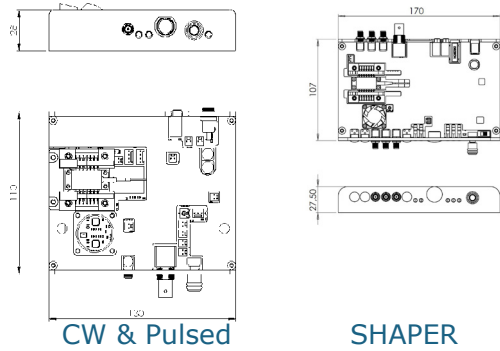
➤ «CCMI» Integrated driver for Multimode diodes

Technical Specifications

GUI (examples)



Mechanical (examples) :

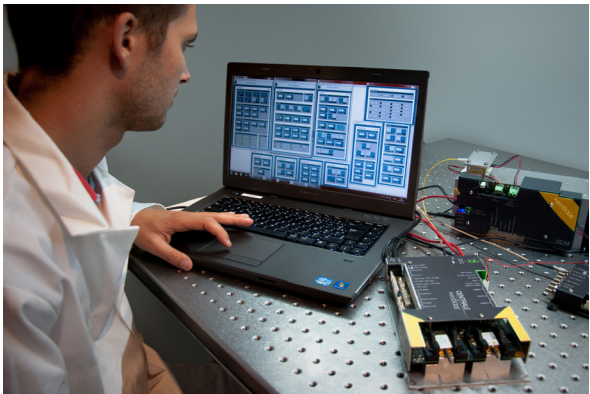


OPTIONS (see all prices on the website page) :

- * PM fiber output
- * Narrow spectrum (FBG-based)
- * Optical collimator (3mm or high power 10 mm version)
- * 250 MHz rep rate for pulse diode +driver versions
- * Special Benchtop version for lab use (see the description on the website page and the picture below)



CCM (for Multimode diodes)



Classification :

Name	830LD :
Diode type	0: Laser diode only 1: 200 mW Butterfly singlemode 2 : 600 mW Butterfly Multimode 3: 2 W multimode 4: 20 W multimode
Driver Electronics :	0: No driver (laser diode alone) 1: CCS/CCSI-CW (CW laser emission only - for singlemode laser diodes) 2: CCS-CCSI-std (Pulsed and CW Driver - for singlemode laser diodes) 3: SHAPER (User design temporal pulse shape - for singlemode laser diodes) 4: CCM/CCMI (for multimode high power laser diodes) LN : Ultra-low Noise driver
Form Factor	0: No driver (laser diode alone) 1: Open frame driver version 2: Integrated driver version

Ordering information :

