808 nm Laser diode & Turn-key solutions
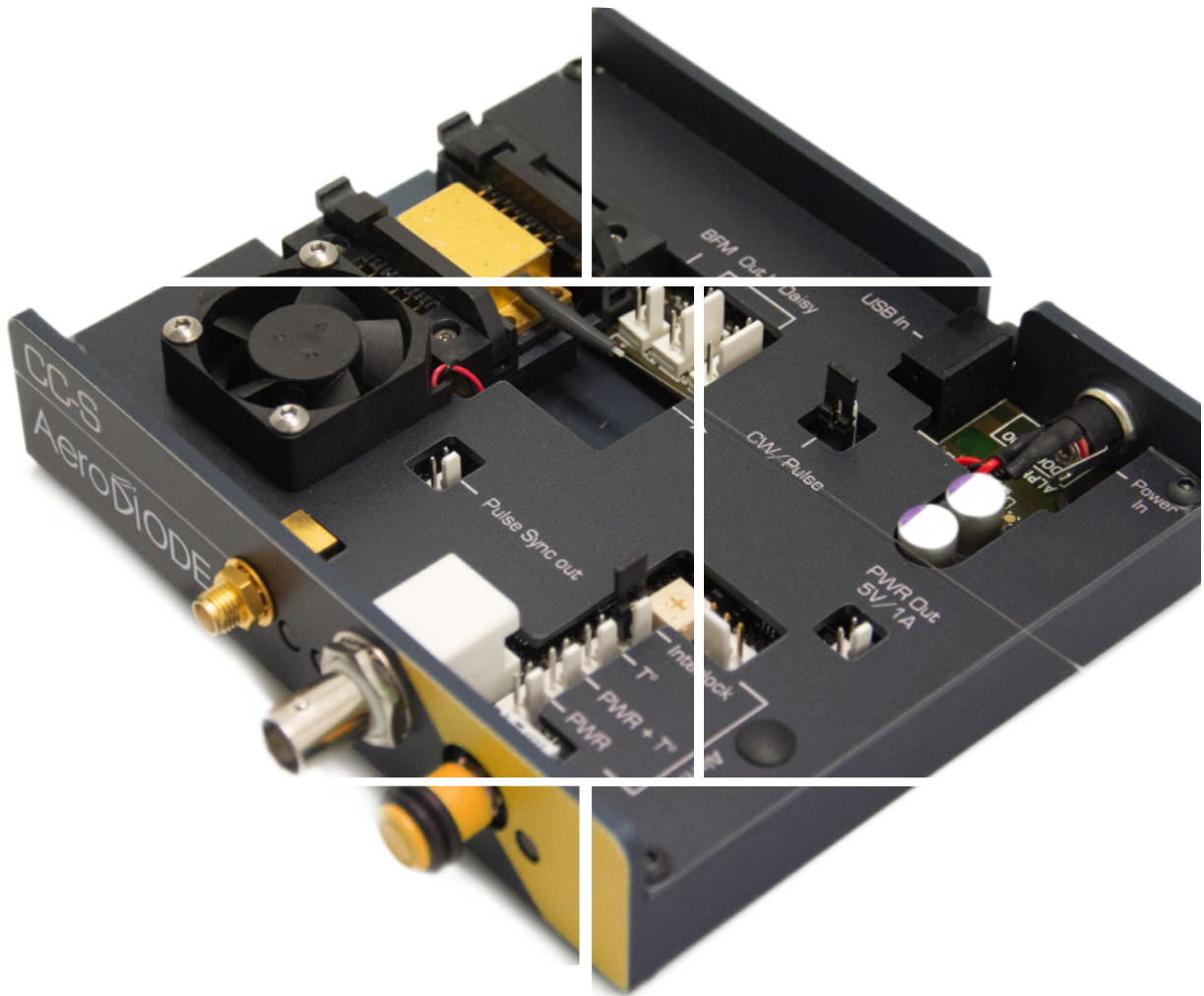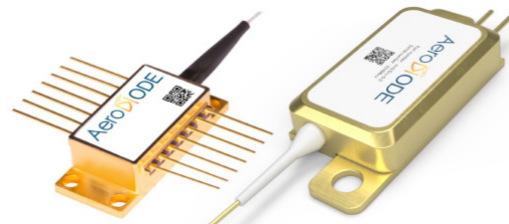
808 nm laser diode

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

Standard singlemode or multimode laser diodes are offered as stock items or associated with a CW or pulsed open-frame or turn-key laser diode driver.
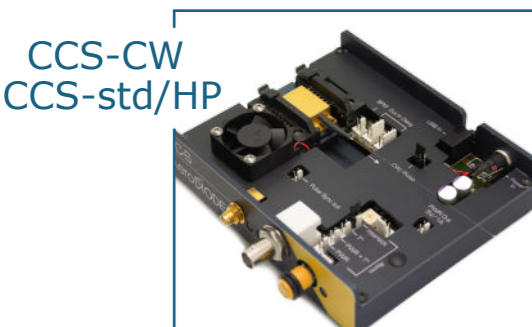
1st
Choose your laser diode :

Diode type	Power (CW)	Power (Pulse)	Nominal Levels (typ.)	Technology	Wave-length [nm]	Fiber	Emission BW	Package [mm]
1	250 mW	400 mW	400 mA - 2 V	Butterfly single mode	808 ±3nm [±1nm Typ.]	PM 780	~1 nm	14 pin Butterfly type 1
2	10 W	10 W	3.5 A - 5.5 V	Multimode single emitter		Multimode 100 µm NA=0.22	~ 3.5 nm	30.9*17*7.7 or 55.21.5*9.2
3	35 W	35 W	6.5 A - 13.5 V		808 ±4nm [±1nm Typ.]			66.5*36*10
4	60 W	60 W	7 A - 22.5 V	Multimode multi emitter				
5	100 W	100 W	9.5 A - 27 V			Multimode 200 µm NA=0.22	~ 4 nm	142*45*20
6	220 W	220 W	11.5A/44 V		808 ±7 nm			160*73*22
7	350 W	350 W	11 A/69 V		808 ±10 nm			222*50*25

2nd
Choose your Driver performance :

	808 nm Laser Diode 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» is the open driver and CCSI is the integrated version)	User design pulse shape Driver («SHAPER» open driver 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)
LASER DRIVER VERSION :					
Output Power - CW / Pulse [Typical values]	1- single mode	250 mW / No	250 mW / 400 mW	No / 400 mW	Not compatible
	2- to 5- Multimode 10W 35W 60W 100W		Not compatible		10 W / 10 W 35W / 35W 60W / 60W 100W / 100W
User design Pulse shape		No	No [On -off only]	Yes	No
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 Pulse duration			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	
Adj. CW offset (pulse regime)			No		Yes [external mode]
Interface/GUI/libraries		USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python			

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

OPEN-FRAME VERSIONS :

SHAPER

CCS-CW CCS-std/HP

➤ Open-frame driver for «Shaper» electronic Board and single mode diodes (user design pulse shape driver)

CCM

➤ Open-frame driver for CW, std and HP electronics Boards for single mode diodes
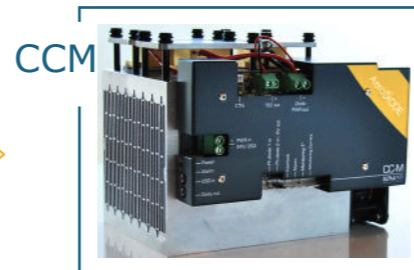
➤ «CCM» Open-frame driver for Multimode diodes

TURN-KEY VERSIONS :

SHAPER-I

CCSI-CW/ std/HP/HPP

➤ Integrated version for CW, std and HP electronics Boards
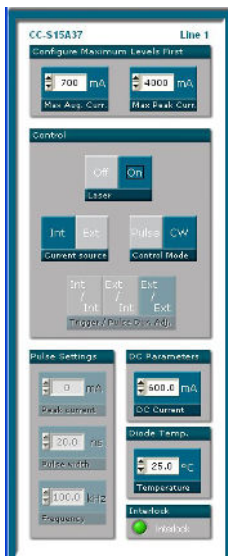
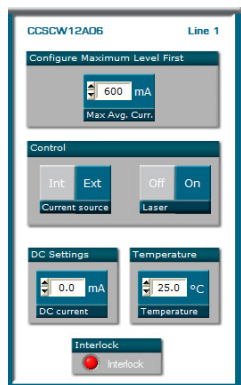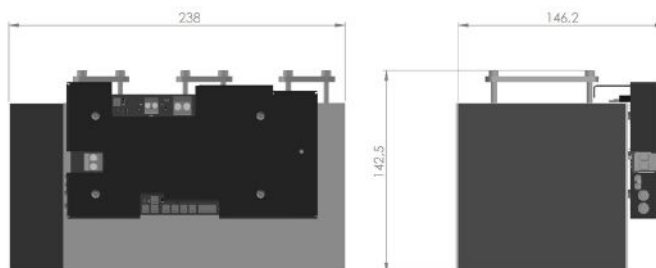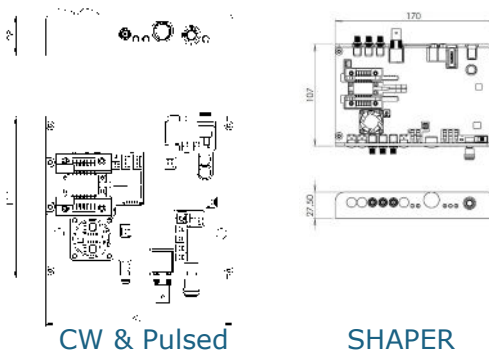➤ Integrated version for Shaper electronics Board

CCMI

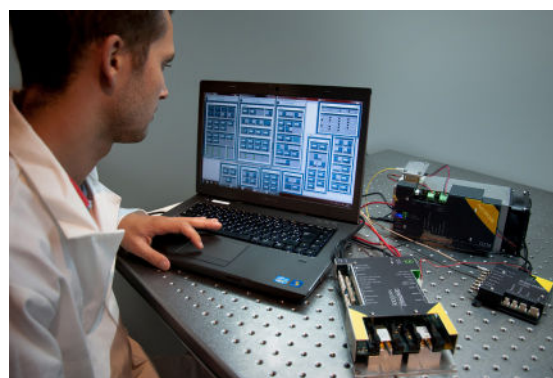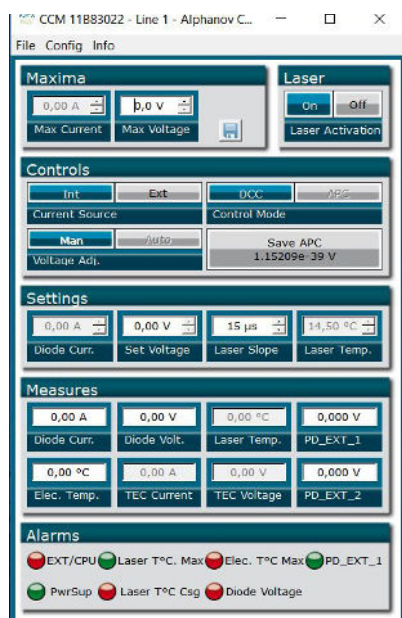➤ «CCMI» Turn-key driver for Multimode diodes

Technical Specifications

GUI (examples)

Mechanical (examples) :

CW & Pulsed   SHAPER

CCM (for Multimode diodes)

Classification :

Name	808LD :
Diode type	1 : 250 mW Butterfly singlemode 2 : 10 W multimode 3 : 35 W multimode 4 : 60W multimode 5 : 100 W multimode 6 : 220 W (diode only - no driver available for such power level) 7 : 350 W (diode only - no driver available for such power level)
Driver Electronics :	0 : No driver - laser diode alone 1 : CW driver (for CW laser emission only) 2 : Pulse and CW driver 3 : SHAPER (User design temporal pulse shape) 4 : High power CCM(I) (for multimode diodes)
Form Factor	0 : No driver - laser diode alone 1 : Open-Frame 2 : Turn-Key Integrated version

Ordering information :

808LD - [_] - [_] - [_]

Diode type	Driver type	Form Factor
1	0	0
2	1	1
3	2	2
4	3	
5	4	
6		
7		

AeroDIODE

⚠ DANGER LASER 4
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION