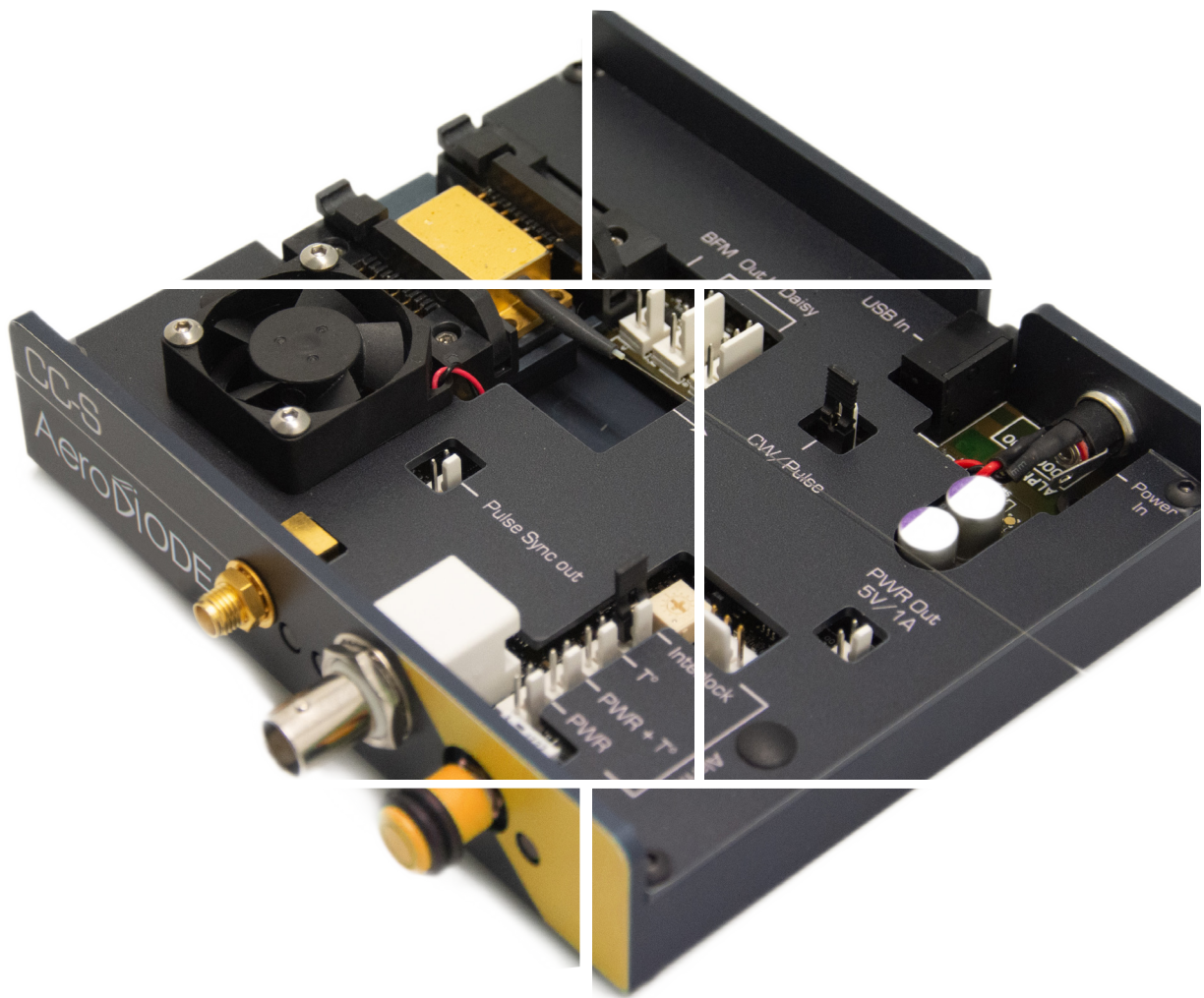# Laser diodes & Turn-key solutions from 1270 to 1650 nm
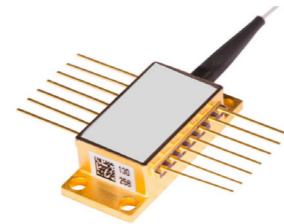

![AeroDIODE]

Choose your own fiber-coupled DFB laser diode + turn-key driver solution from 1270 to 1650 nm

Standard singlemode DFB or Bragg laser diodes from 10 to 400 mW are offered as stock items or associated with a CW or nanosecond pulsed turn-key driver.

1st Choose your laser diode :

Diode type	Power (CW)	Power (Pulse) (typ)	Technology	Wavelength (nm)	Fiber	Emisison Bandwidth (typ)	Package (mm)
1	10 mW	20 mW	Single mode DFB	Any wavelength between 1270 and 1650 nm (see the table on website page for exact power vs wavelengths)	SMF or PM versions available	<< 0.3 nm	14 pin Butterfly-type 1 pinning (type-2 available on demand)
2	40 mW	80 mW					
3	100 mW	200 mW					
4	400 mW	600 mW	Standard Fabry-Perrot with Bragg grating	Any wavelength between 1420 and 1500 nm		< 2 nm	

2nd Choose your Driver performance :

	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» is the open driver and «CCSI» is the integrated version)	User design pulse shape Driver (From 0.5 ns to 8 µs : «SHAPER» is the open driver and Shaper-i is the integrated version)
Output Power - CW / Pulse (Typical values)	1- 10 mW	10 mW / No	10 mW / 15 mW	No / 15 mW
	2- 40 mW	40 mW / No	40 mW / 60 mW	No / 60mW
	3- 100 mW	100 mW / No	100 mW / 150 mW	No / 150 mW
	4- 400 mW	400 mW / No	400 mW / 600 mW	No / 400 mW
User design Pulse shape		No	No (On-Off only)	Yes
Laser diode T°		15 - 50 °C		
Pulse duration (Ext trigger)	Any	CW only	0.5 ns - CW	0.5 ns - 8 µs
Pulse duration (Internal pulse generator)			0.5 ns - 500 ns	
Typ rise/fall time ; Min pulse duration			3 (ns/A) ; 1.5 ns	< 1ns/A ; 1.5 ns
Internal rep rate adjustment			1 Hz - 4 MHz (250 MHz optional)	1 Hz - 20 MHz
Temporal Jitter			< 8 ps	< 2 ns
Adj. CW offset (pulse regime)			Optional	No
Interface/GUI/libraries		USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python		

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

OPEN-FRAME VERSIONS :

CCS-CW CCS-std/HP

➢ Open-frame driver for CW, std and HP electronics boards for single mode diodes
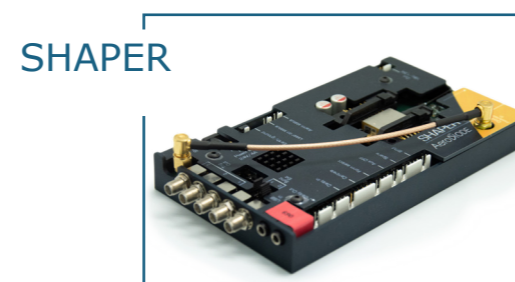
SHAPER

➢ Open-frame driver for «Shaper» electronic board and single mode diodes

INTEGRATED VERSIONS :

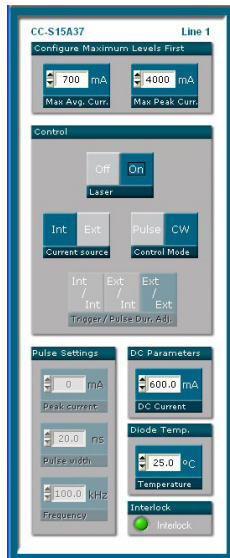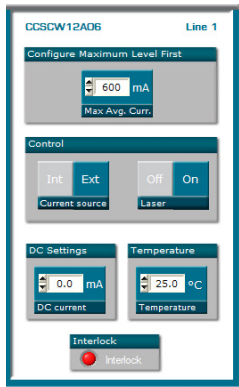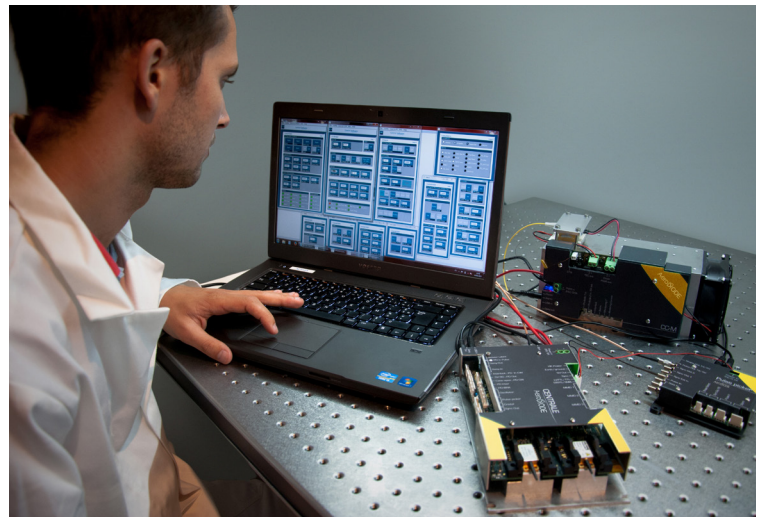**CCSI-CW/ std/HP**

➢ Integrated version for CW, std and HP electronics boards

SHAPER-I

➢ Integrated version for Shaper electronics board
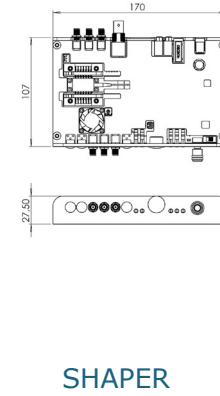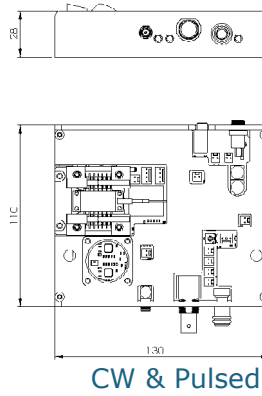
AeroDIODE

www.aerodiode.com

GUI (examples)

Mechanical (examples) :

CW & Pulsed   SHAPER
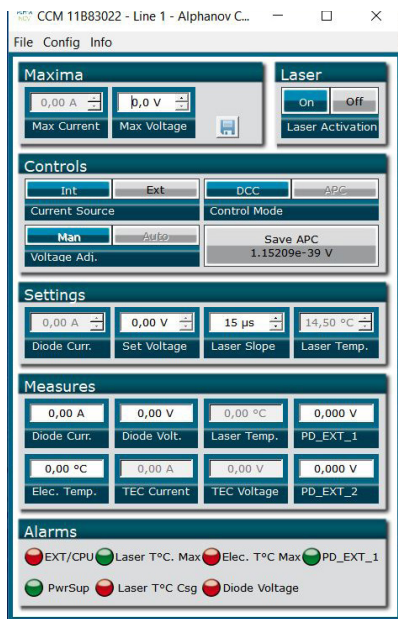
Classification :

Name	1550 LD :
Wavelength	Choose any wavelength between 1270 and 1650 nm (models 1-3) or between 1420 and 1500 nm (model 4) (note : only the 1310, 1550 and 1650 nm are available with 100 mW CW power)
Diode type	1: 10 mW DFB Butterfly singlemode 2: 40 mW DFB Butterfly singlemode 3: 100 mW DFB singlemode 4: 400 mW Bragg singlemode
Driver Electronics :	0: Laser diode alone 1: CCS-CW (open driver for CW only) 2: CCS-std (Pulse and CW Driver) 3: SHAPER (pulse only with user design pulse shape)
Form Factor	0: Laser diode alone 1: Open frame 2: Integrated
SMF or PM	1: SM Fiber 2: PM Fiber

Ordering information :

Wavelength (any value between 1270 and 1650 nm)

1 : SMF
2 : PMF

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

Diode type
1
2
3
4

Driver type
0
1
2
3

Form Factor
0
1
2
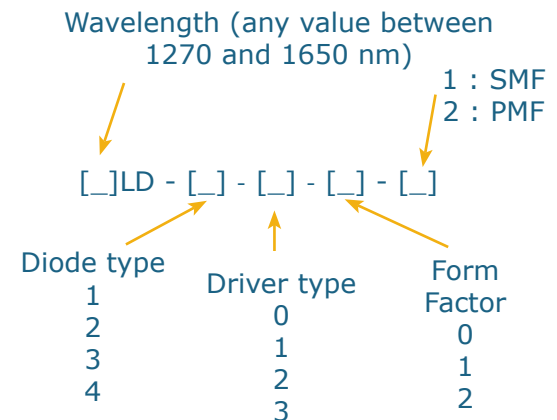
Example : 1550LD-3-2-1-2 =
1550 nm 100 mW laser diode with a
PM Panda fiber output, mounted on a
«pulsed On/Off & CW» open frame driver

AeroDiODE