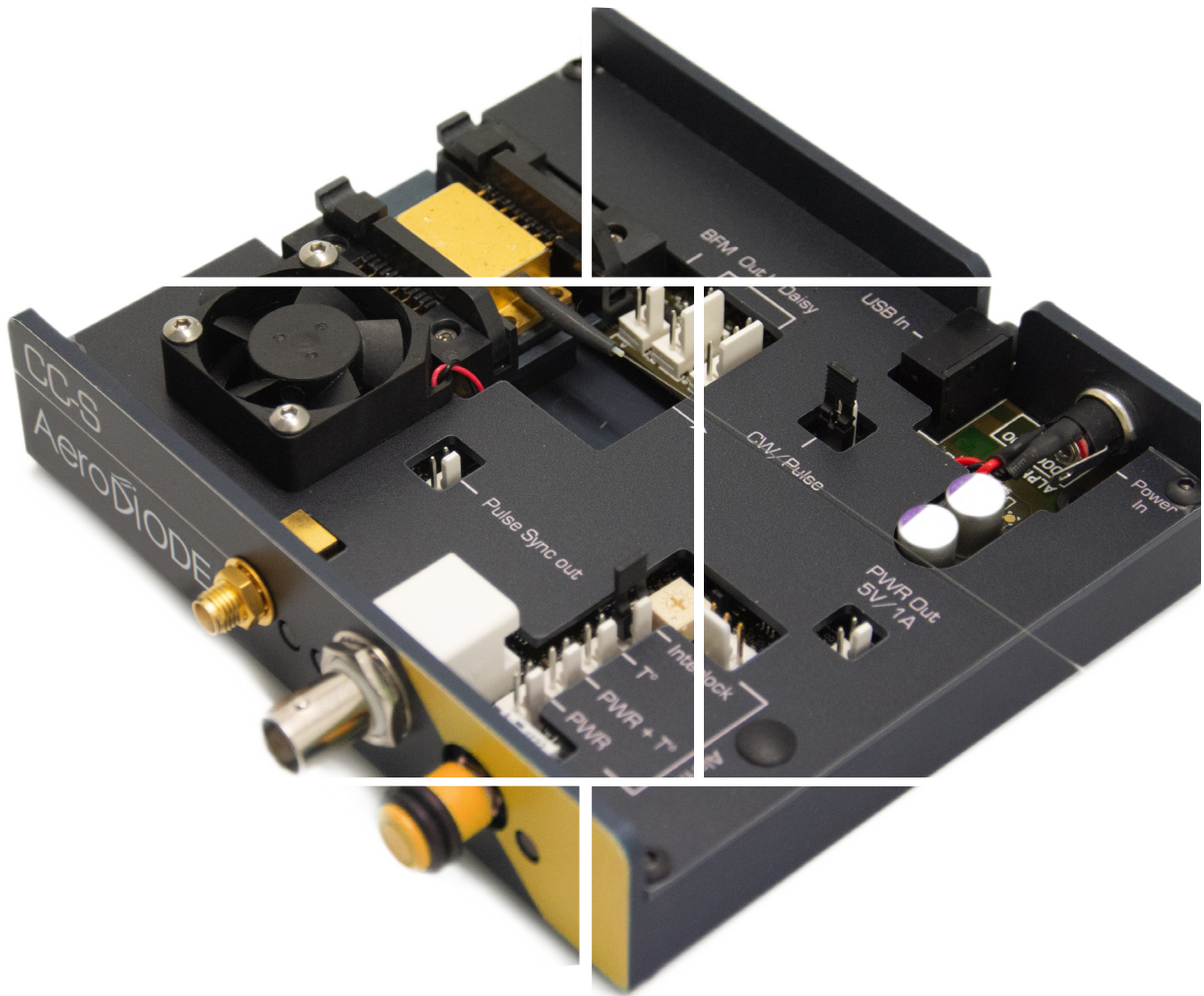


# 1064 nm Laser diode & Turn-key solutions



AeroDiODE

# 1064 nm laser diode

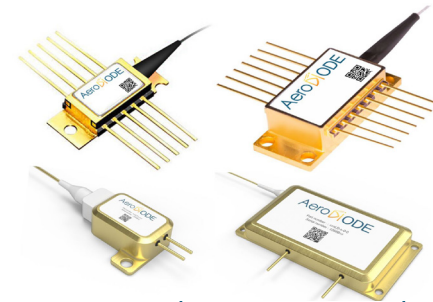
Choose your own Bragg, DFB or multi-mode laser diode + driver solution

Standard Bragg or DFB laser diodes are offered as Stock items or associated with a CW and/or Pulsed Turn-Key Laser Diode Driver.

1<sup>st</sup>

Choose your laser diode :

Diode type	Technology	Wavelength (nm)	Fiber	Emission Bandwidth (typ)	Power Kink free (CW)	Power Kink free (Pulse)	Package
1	Standard with Bragg	1060 ±2nm	PM singlemode	CW : < 0.2 nm Pulse : < 1 nm*	up to 550 mW	up to 1500 mW	14 pin - type 1
2	DFB	1063.5 ±1nm		~ 200 kHz	up to 200 mW	up to 500 mW	10 pin - type 1
3	Ultra Broad FBG	1064 ±2nm		> 2nm	up to 650mW	up to 2000 mW	10 pin - type 1
4	Multimode	1064 ±7nm	Multimode 105 µm core	3.5 nm	9 W	9 W	30*17 mm
5	Multimode			4.5 nm	25 W	25 W	66.5*36 mm

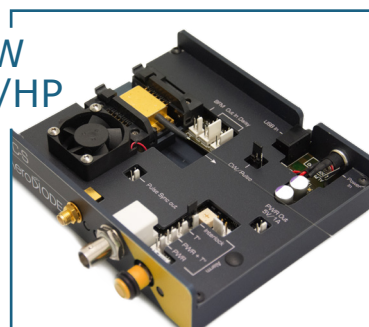


3<sup>rd</sup>

Choose your product form factor : OPEN or INTEGRATED

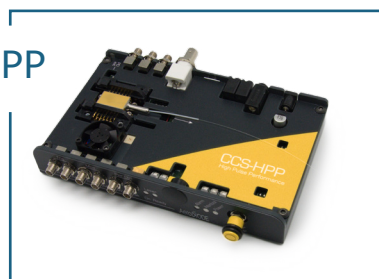
## OPEN FRAME VERSIONS :

CCS-CW  
CCS-std/HP



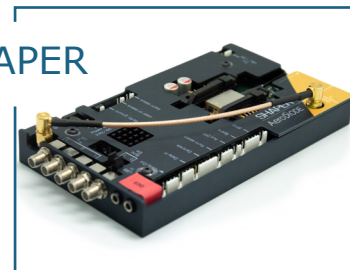
➤ Open driver for CW, std and HP electronics Boards

CCS-HPP



➤ Open driver for HPP (High Pulse Performance) electronic Board

SHAPER



➤ Open driver for Shaper electronics Board

2<sup>nd</sup>

Choose your Driver performance :

LASER DRIVER VERSION :

	Laser Diode version	CW	Std (from 1ns to CW)	HP (High Power)	HPP (High Pulse Performance)	SHAPER (User Designs Pulse Shape)	CCM/CCMI High Power (for 10 W model only)	
Output Power - CW regime (typ)	1 - Bragg	550 mW	400 mW		550 mW	No	No	
	2 - DFB	200 mW						
	3- Broad FBG	500 mW		650 mW				
	4 & 5 Multimode	No					9 W / 25 W	
User design Pulse shape	Any	No	No (On-Off Driver only)			Yes	No	
Laser diode T° range		15 - 50 °C					15 - 40 °C	
Pulse duration (Ext pulse 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		< 1 (ns/A) ; 1.5 ns		few µsec	
Internal rep rate adjustment			1Hz - 4MHz	1Hz - 10MHz (250MHz optional)	1Hz - 250MHz	1Hz - 20MHz	No	
Temporal Jitter			< 25 ps		< 8 ps	< 2 ns		
Adj. CW offset in pulse regime			No	Yes		No	Yes (external mode)	
Interface/GUI/libraries			USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python					

## INTEGRATED VERSIONS :

CCSI-CW/  
std/HP/HPP



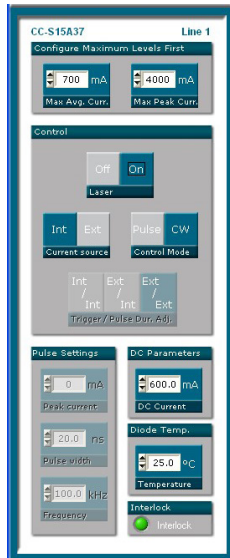
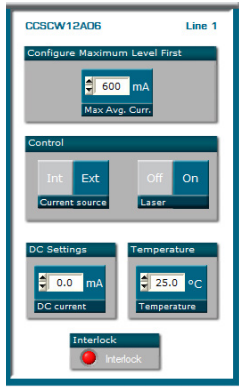
➤ Integrated version for CW, std and HP electronics board

SHAPER-I

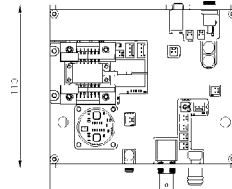


➤ Integrated version for Shaper electronics board

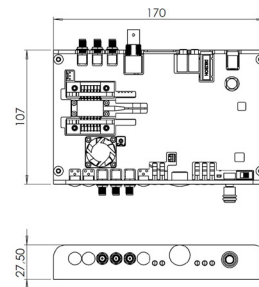
## GUI (examples)



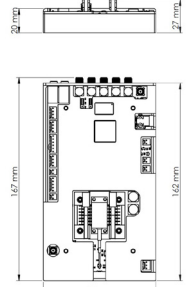
## Mechanical (examples) :



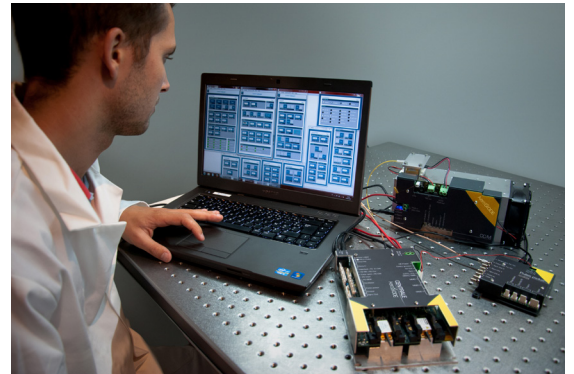
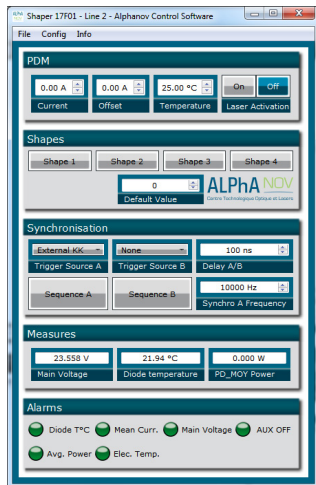
CW & Pulsed



HPP



Shaper



## Classification :

Name	1064nm LD :
Diode type	1 : Standard with Bragg (14 pin Butterfly) 2 : DFB (10 pin Butterfly) 3 : Ultra Broad FBG (10 pin Butterfly) 4 : Multimode 9 W - 105 µm core 5 : Multimode 25 W - 105 µm core
Driver electronics :	0: No driver (laser diode only) 1: CW driver (for CW laser diode emission only) 2: Std - Pulse and CW Driver 3 : HP (High Power) 4 : HPP (High Pulse Performance) 5 : SHAPER 6 : CCM/CCMI High power (For multimode diode only)
Form Factor	0: No driver (laser diode only) 1: Open 2: Integrated

## Ordering information :

