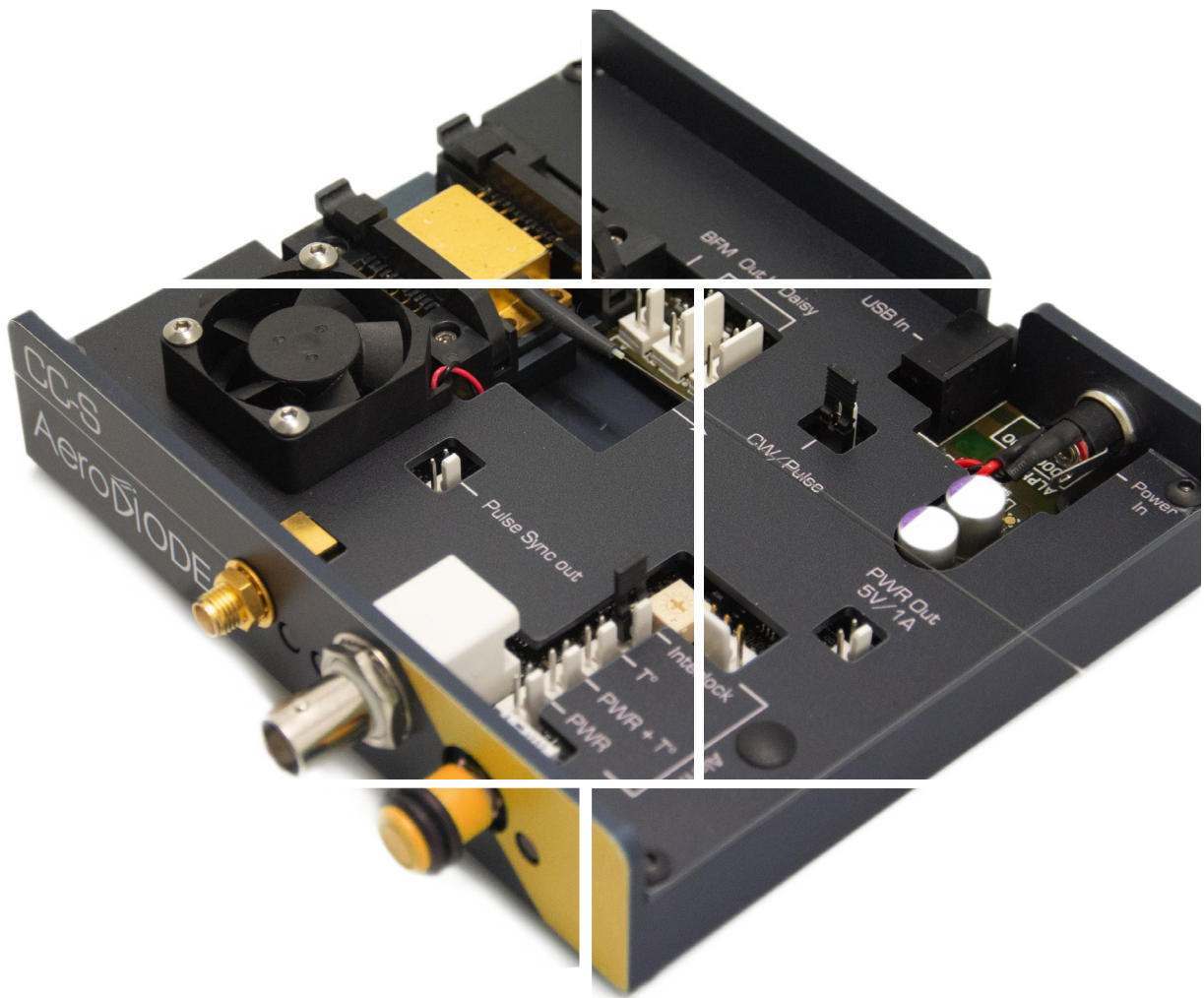


# 1064 nm Laser diode & Turn-key solutions



Aero  DiODE

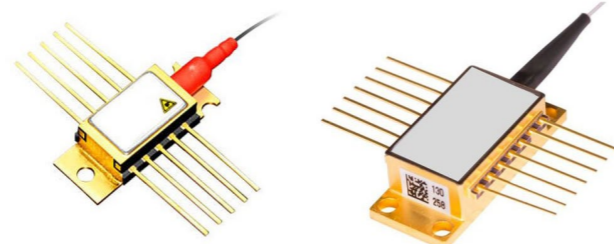
# 1064 nm laser diode

## Choose your own Bragg or DFB laser diode + turn-key Driver solution

Standard Bragg or DFB laser diodes are sourced from the most reliable manufacturers and offered as Stock items or associated with a CW or Pulsed Turn-Key Laser Diode Driver.

### 1st

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 ±10nm	Multimode 200µm core	5 nm	10 W	10 W	small form factor

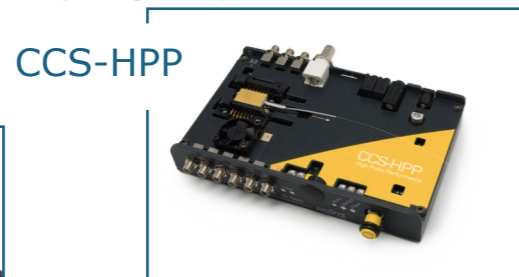
### 3rd

Choose your product form factor : OPEN or INTEGRATED

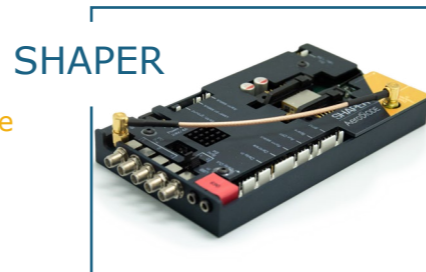
#### OPEN FRAME VERSIONS :



➤ Open driver for CW, std and HP electronics Boards



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



➤ Open driver for Shaper electronics Board

### 2nd

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 Design ns 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 - Multimode	No					10 W
Output power - Pulse regime (typ)	1 - Bragg	-	800 mW	1500 mW	1600 mW	850 mW	No
	2 - DFB		500 mW				
	3 - Broad FBG		950 mW	2000 mW		1000 mW	
	4 - Multimode		No				
User design Pulse shape	No	No (On-Off Driver only)			Yes	No	
Laser diode T° range	15 - 50 °C						15 - 40 °C
Pulse duration (Ext pulse trigger)	Any	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



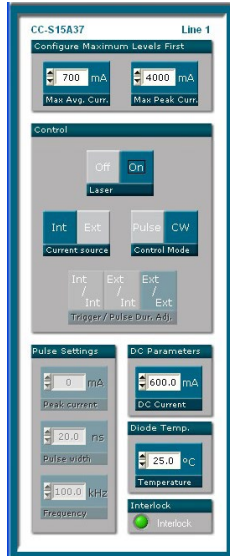
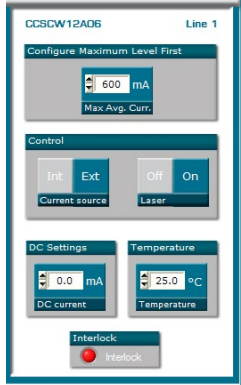
➤ Integrated version for CW, std and HP electronics Boards

SHAPER-I

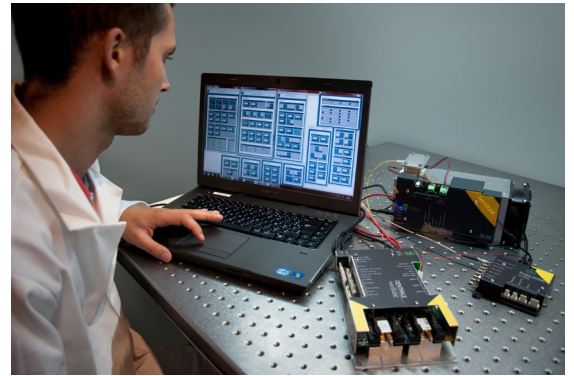
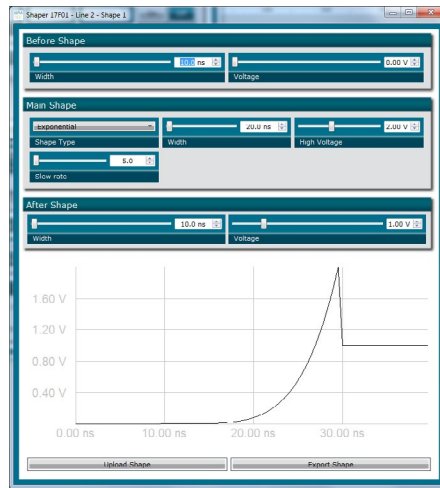
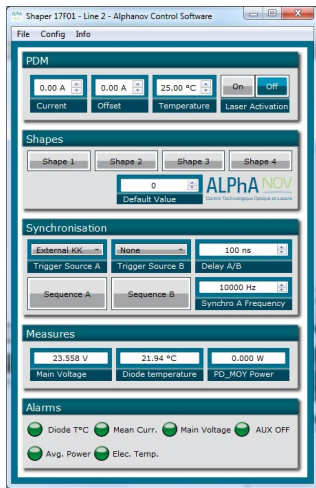
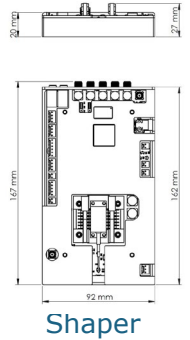
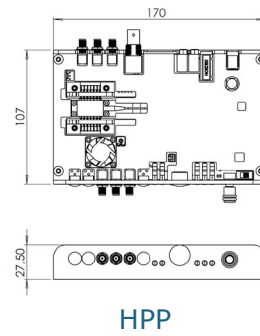
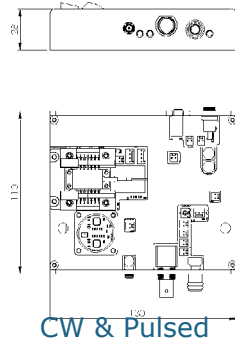


➤ Integrated version for Shaper electronics Board

GUI (examples)



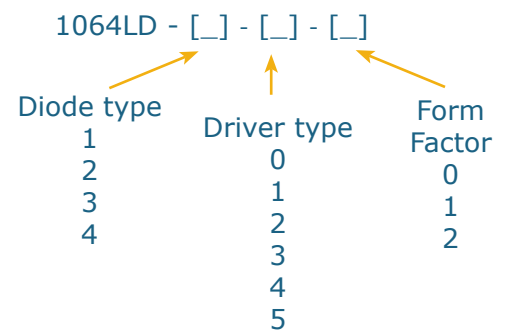
Mechanical (examples) :



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 10 W
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 :



Photos : ALPhANOV - Version 12-2020