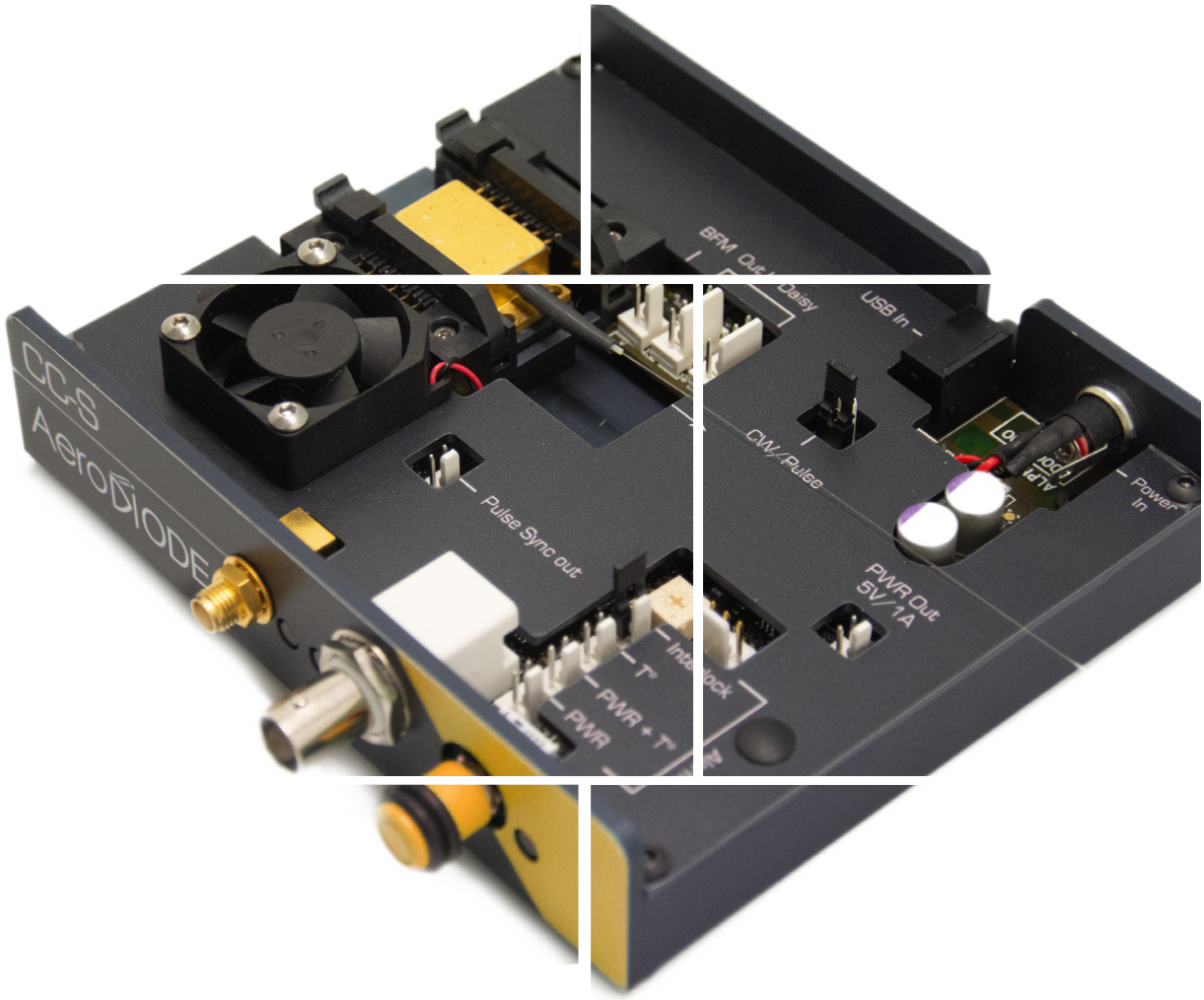
1064 nm Laser diode & Turn-key solutions



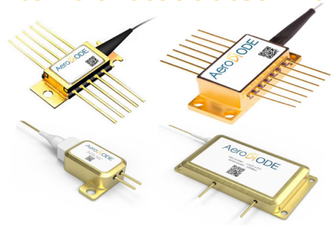
AeroDIODE

www.aerodiode.com

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.



1st Choose your laser diode :

Diode type	Techno-logy	Wavelength (nm)	Fiber	Emisison Linewidth (typ)	Power Kink free (CW)	Power Kink free (Pulse)	Package
1	Standard with Bragg	1064 ±2nm (chip regu-lated at >30°C)	PM single-mode	1-3 nm	up to 700 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	Multi-mode 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

2nd Choose your Driver performance :

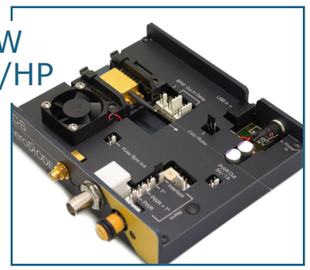
LASER DRIVER VERSION :

	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	700 mW	400 mW		550 mW	No	No
	2 - DFB	200 mW					
	3- Broad FBG	650 mW	500 mW				
	4 & 5 Mul-timode	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					

3rd Choose your product form factor : OPEN or INTEGRATED

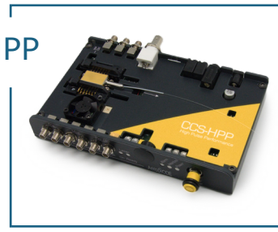
OPEN FRAME VERSIONS :

CCS-CW
CCS-std/HP



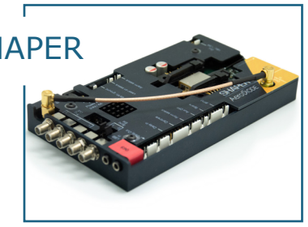
➢ Open driver for CW, std and HP electronics Boards

CCS-HPP



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

SHAPER



➢ Open driver for Shaper electronics Board

INTEGRATED VERSIONS :

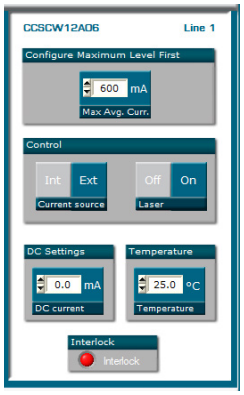
CCSI-CW/
std/HP/HPP

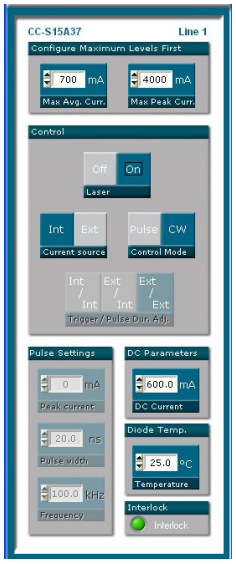
➢ Integrated version for CW, std and HP electronics board

SHAPER-I

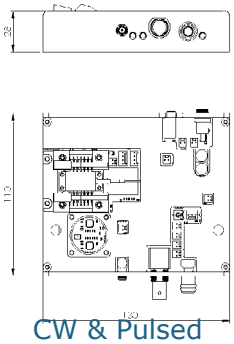
➢ Integrated version for Shaper electronics board

GUI (examples)

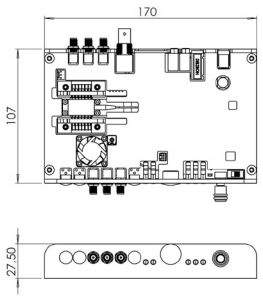




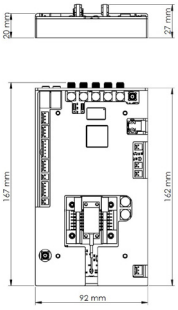
Mechanical (examples) :



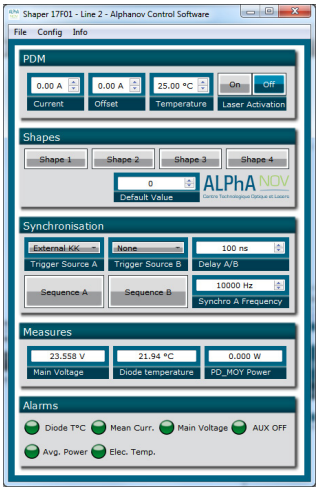
CW & Pulsed

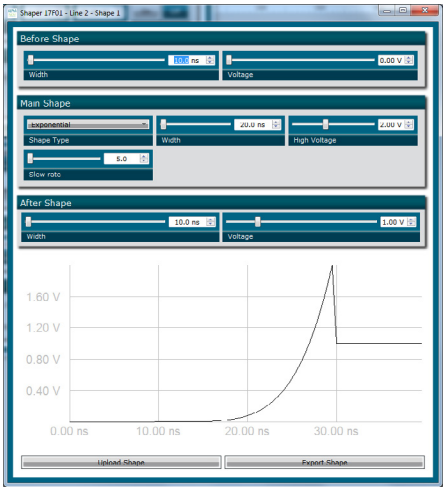


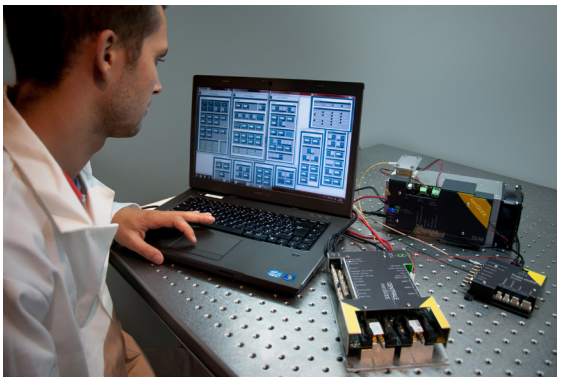
HPP



Shaper







Classification :

Name	1064nm LD :
Diode type	1 : Standard Fabry-Perot (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 :

1064LD - [_] - [_] - [_]

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

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