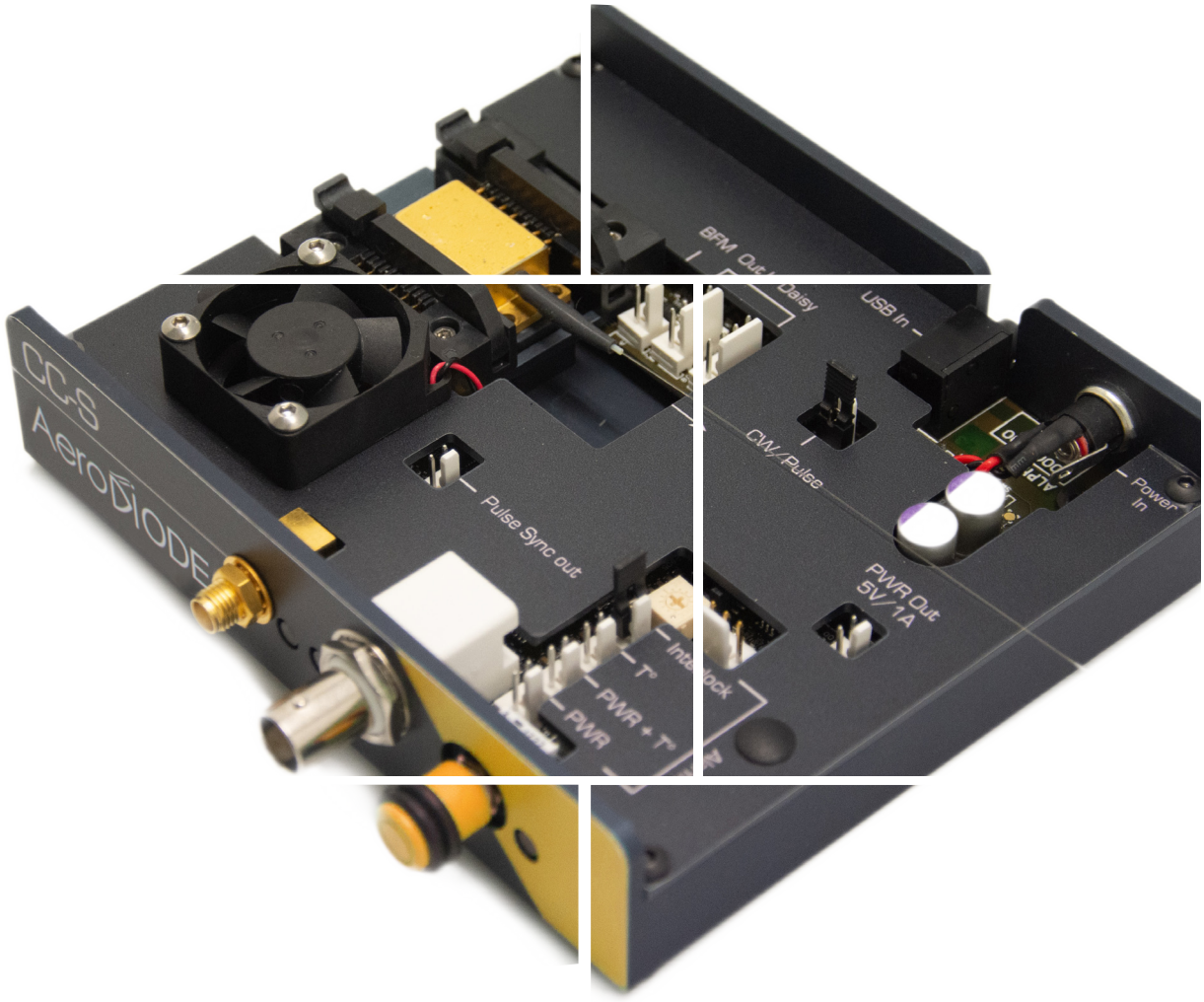
1030 nm Laser diode & Turn-key solutions



AeroDIODE

www.aerodiode.com

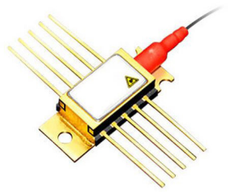
1030 nm laser diode

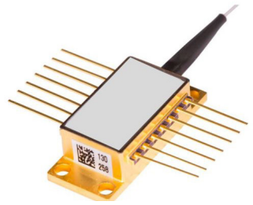
Choose your own standard or **DFB laser diode** + turn-key Driver solution

Standard or **DFB laser diodes** are offered as stock items or associated with a CW or pulsed Turn-Key Laser Diode Driver.

1st

Choose your laser diode :





Diode type	Techno-logy	Wavelength (nm)	Fiber	Emisison Band-width (typ)	Power Kink free (CW)	Power Kink free (Pulse)	Package
1	Standard with Bragg	1030 ± 5nm	PM980 singlemode	<2 nm	up to 200 mW	up to 1200 mW	14 pin - type 1
2	DFB	1030 ± 2nm		~ 200 kHz	up to 200 mW	up to 800 mW	10 pin - type 1

2nd

Choose your Driver performance :

LASER DRIVER VERSION :

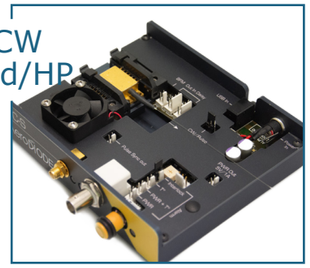
	Laser Diode Model :	CW	Std (from 1ns to CW)	HP (High Power)	HPP (High Pulse Performance)	SHAPER (User Design ns Pulse Shape)
Output Power - CW regime (typ)	1 - Bragg	200 mW				No
	2 - DFB	220 mW				
Output power - Pulse regime (typ)	1 - Bragg	-	700 mW	1200 mW	1200 mW	700 mW
	2 - DFB		500 mW			
User design Pulse shape	Any	No	No (On-Off Driver only)			Yes
Laser diode T° range		15 - 50 °C				
Pulse duration (Ext pulse trigger)		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		< 1 (ns/A) ; 1.5 ns	
Internal rep rate adjustment			1Hz - 4MHz	1Hz - 10MHz (250MHz optional)	1Hz - 250MHz	1Hz - 20MHz
Temporal Jitter			< 25 ps		< 8 ps	< 2 ns
Adj. CW offset in pulse regime			No	Yes		No
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

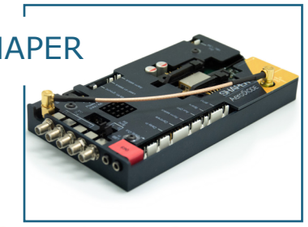


➢ Open driver for CW, std and HP electronics Boards

CCS-HPP

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

SHAPER



➢ Open driver for Shaper electronics Board

INTEGRATED VERSIONS :

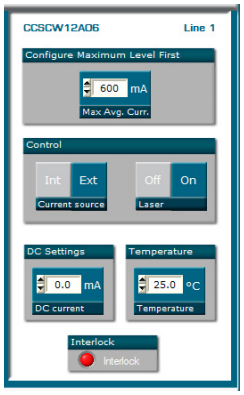
CCSI-CW/
std/HP/HPP

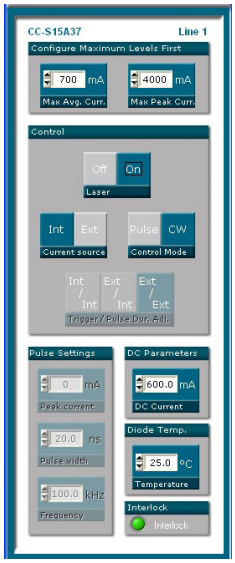
➢ Integrated version for CW, std and HP electronics Board

SHAPER-I

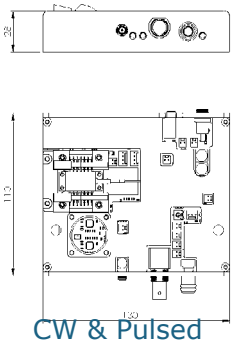
➢ Integrated version for Shaper electronics Board

GUI (examples)

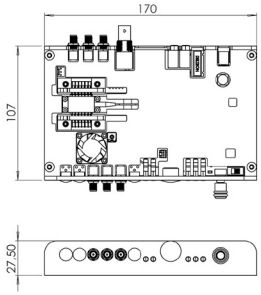




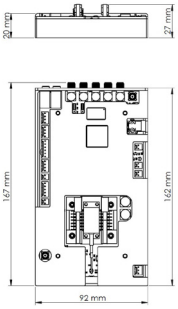
Mechanical (examples) :



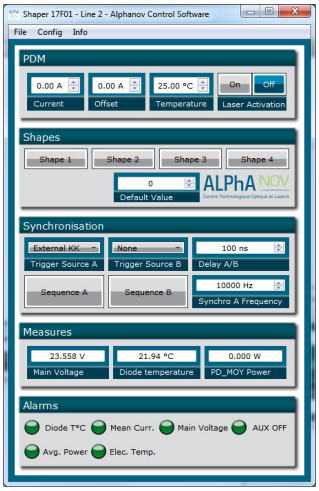
CW & Pulsed

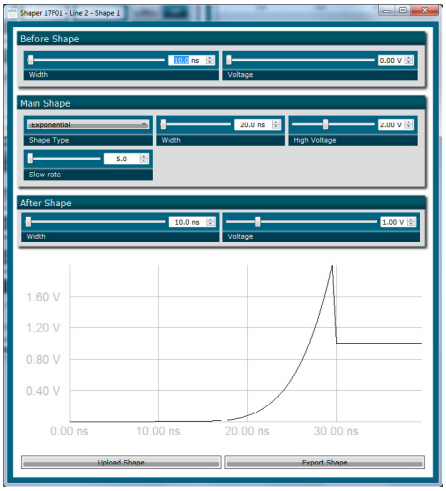


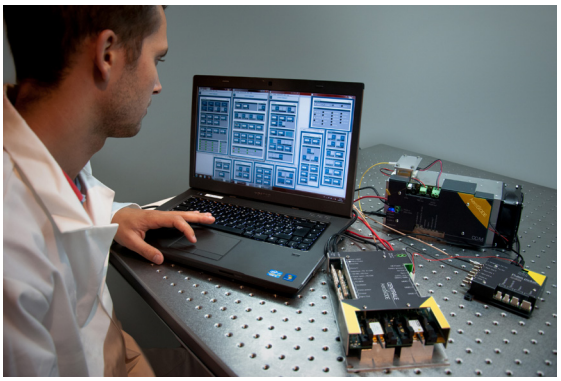
HPP



Shaper







Classification :

Name	1030nm LD :
Diode type	1 : Standard with Bragg (14 pin Butterfly) - PM fiber 2 : DFB (10 pin Butterfly) - PM fiber
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
Form Factor	0 : No driver (laser diode only) 1: Open 2: Integrated

Ordering information :

1030LD - [_] - [_] - [_]

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

Photos : ALPhANOV - Version 02-2021

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