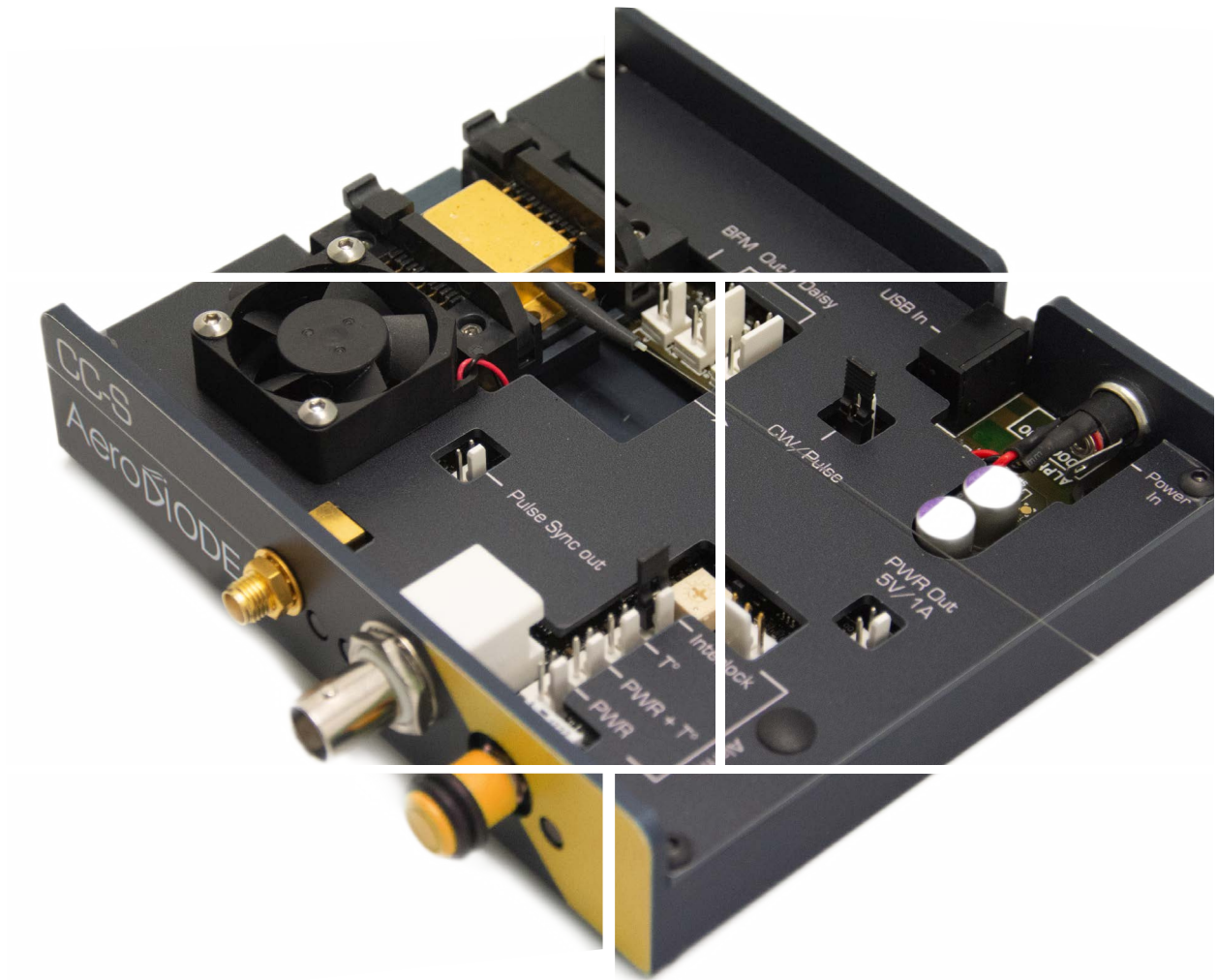


1030 nm Laser diode & Turn-key solutions



Aero**Di**ODE

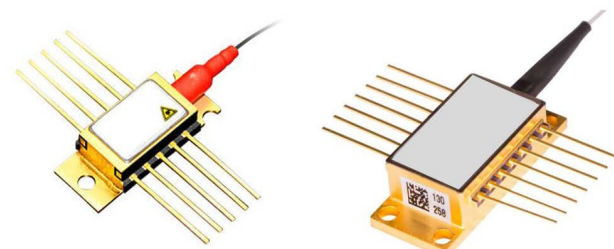
1030 nm laser diode

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	Technology	Wavelength (nm)	Fiber	Emission Bandwidth (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	Single frequency DFB	1030 ± 2nm		~ 200 kHz	up to 200 mW	up to 800 mW	10 pin - type 1
3*	Single frequency DFB	1030 ± 1nm	HI1060 [PM980]	~ 200 kHz	up to 70 mW	up to 105 mW	14 pin - type 1

*Guaranteed mode-hop-free when scanning

3rd

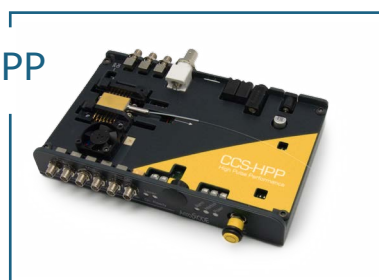
Choose your product form factor : OPEN or INTEGRATED

OPEN FRAME VERSIONS :



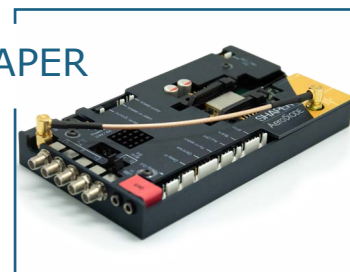
➤ Open driver for CW, std and HP electronics Boards

CCS-HPP



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

SHAPER



➤ Open driver for Shaper electronics Board

INTEGRATED VERSIONS :



➤ Integrated version for CW, std and HP electronics Board

SHAPER-I



➤ Integrated version for Shaper electronics Board

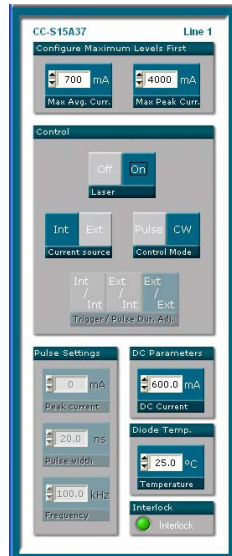
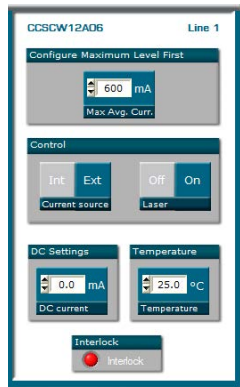
2nd

Choose your Driver performance :

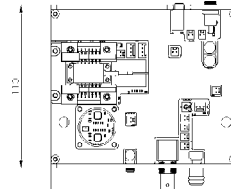
LASER DRIVER VERSION :

	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				
	3 - DFB	70 mW				No
Output power - Pulse regime (typ)	1 - Bragg	-	700 mW	1200 mW	1200 mW	700 mW
	2 - DFB		500 mW			
	3 - DFB		105 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 - 60MHz
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				

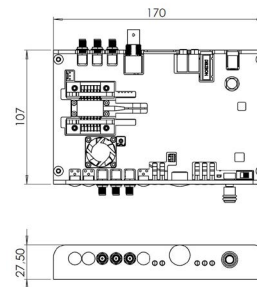
GUI (examples)



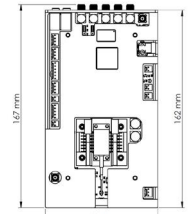
Mechanical (examples) :



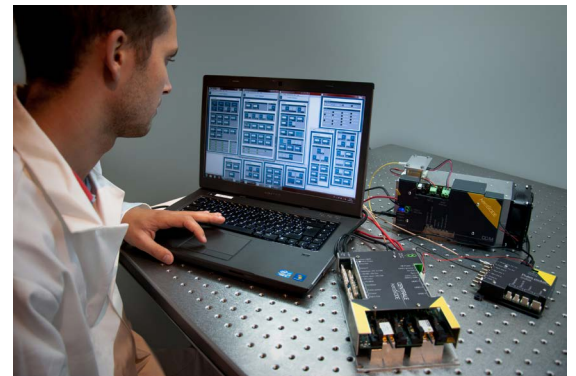
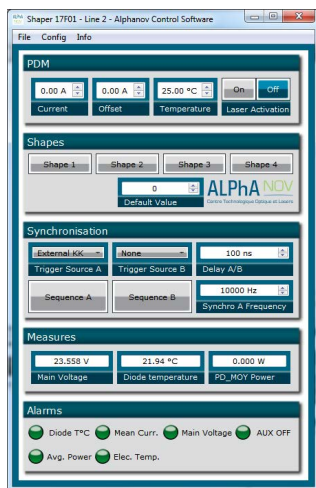
CW & Pulsed



HPP



Shaper



Classification :

Name	1030nm LD :
Diode type	1 : Standard with Bragg (14 pin Butterfly) - PM fiber 2 : Single frequency DFB (10 pin Butterfly) - PM fiber 3 : Single frequency 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 :

