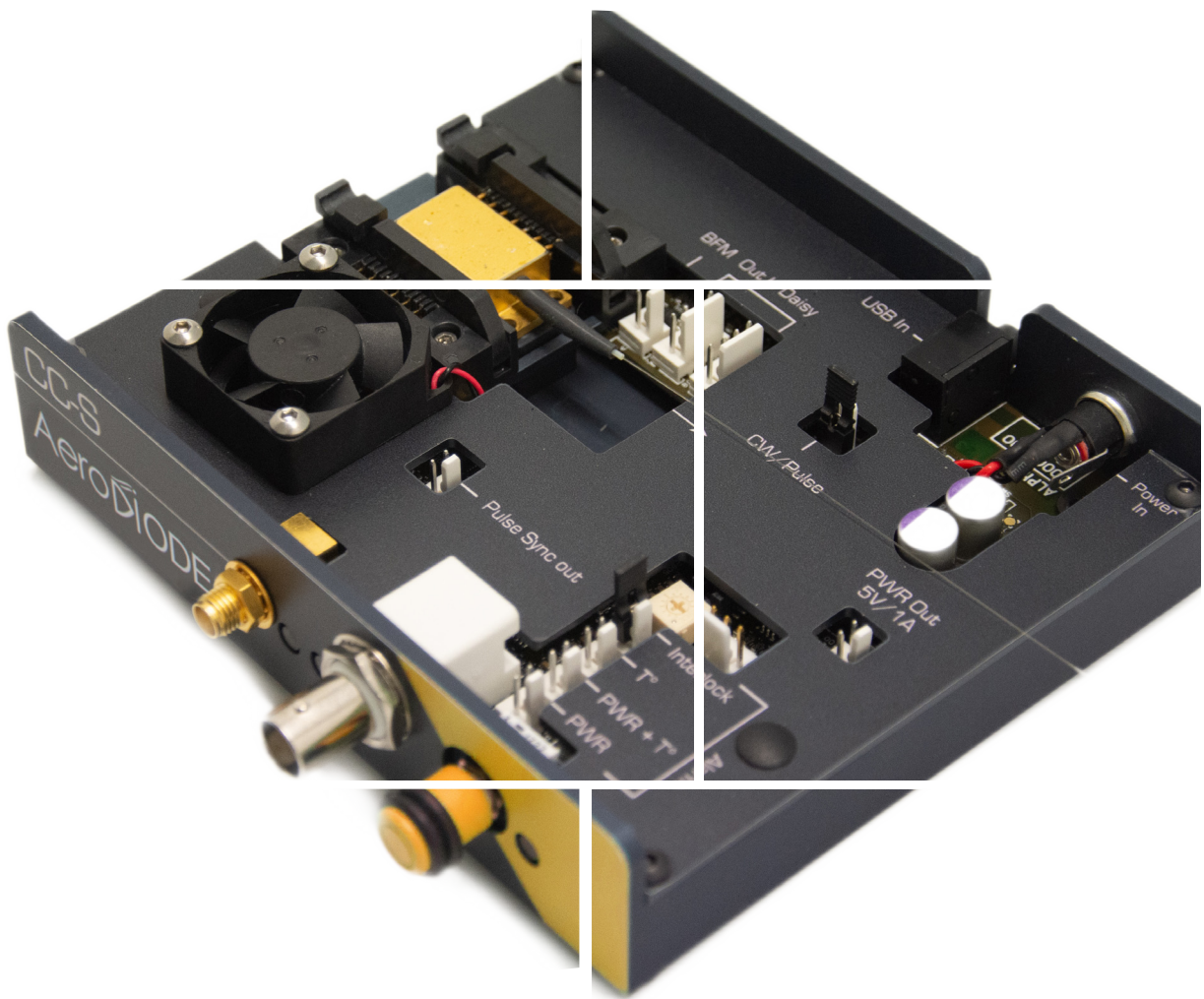


1310 nm laser diodes & turn-key solutions



Aero **Di**ODE

Choose your own fiber-coupled DFB or Fa- bry-Pérot laser diode + turn-key driver solu- tion at 1310 nm

Standard singlemode DFB or Fabry-Pérot laser diodes from 10 to 300 mW are offered as stock items or associated with a CW or nanosecond pulsed turn-key driver.

1st

Choose your laser diode :



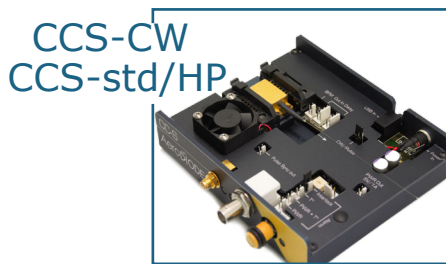
Diode Model*	Power (CW)	Power (Pulse) (typ)	Technology	Wavelength (nm)	Fiber	Emission Bandwidth (typ)	Form-factor
1	10 mW	15 mW	Single frequency DFB	1310 +-5 nm	SMF or PM versions available PM Only	~1 MHz	14 pin Butterfly- type-1 (other pin configuration available on demand)
2	40 mW	60 mW				~100 kHz	
3	100 mW*	120 mW					
4	190 mW*	200 mW					
5	300 mW	350 mW	Single mode Fabry-Pérot w. optional Bragg			~5-10 nm ~0.1 nm with Bragg option	14 pin Butterfly- type 1

* See the products webpages by wavelength for detailed information and scroll-down to see all configurations and prices.

3rd

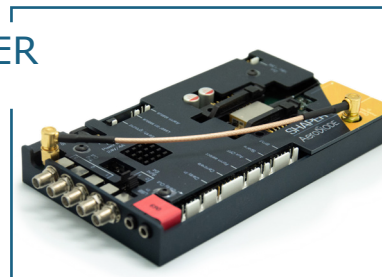
Choose your product form factor : OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS :



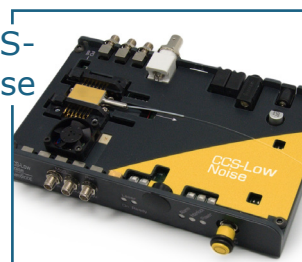
> Open-frame driver for CW, std and HP electronics boards for single mode diodes

SHAPER



> Open-frame driver for «Shaper» electronic board and single mode diodes

CCS-Low noise



> Open-frame driver for TDLAS, Ultra low noise and HPP special electronics boards (contact us for these special driver models)

CCSI-CW/ std/HP



> Integrated version for CW, std and HP electronics boards

SHAPER-I



> Integrated version for Shaper electronics board

CCSI-Low noise



> Integrated version for Shaper electronics board

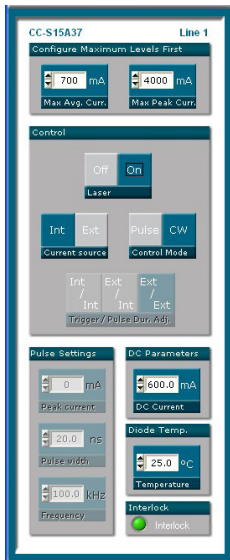
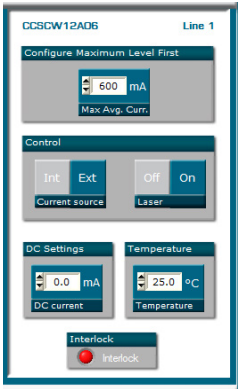
2nd

Choose your Driver performance :

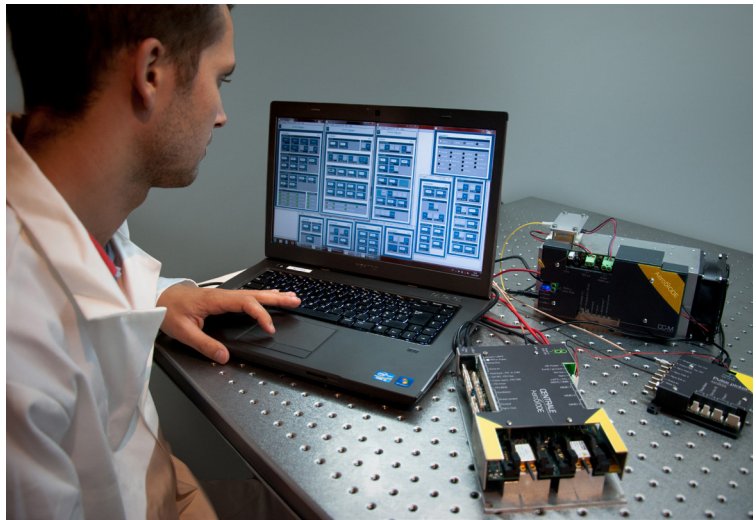
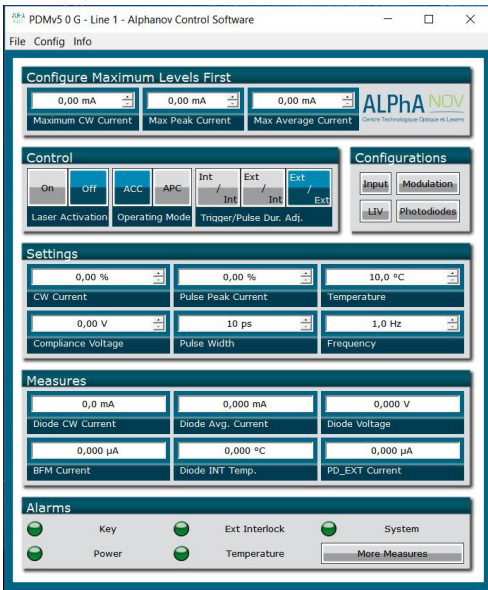
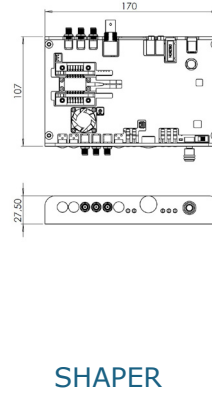
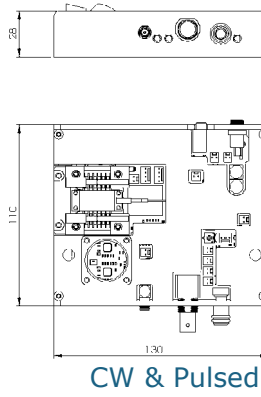
LASER DIODE VERSION :	CW Driver («CCS-CW» is the open driver and CCSI-CW is the integrated version)	Ultra Low noise CW Driver («CCS-Low noise» is the open driver with Ultra low noise performances and CCSI-Low noise is the integrated version)	Pulse & CW Driver (from 1 ns to CW : «CCS» is the open driver and «CCSI» is the integrated version)	User design pulse shape Driver (From 0.5 ns to 8 µs : «SHAPER» is the open driver and Shaper-I is the integrated version)
Output Power - CW / Pulse (Typical values)	1 : 10 mW	10 mW / No	10 mW / 15 mW	No / 15 mW
	2 : 40 mW	40 mW / No	40 mW / 60 mW	No / 60mW
	3 : 100 mW	100 mW / No	100 mW / 120 mW	No / 120 mW
	4 : 190 mW	200 mW / No	190 mW / 200 mW	No / 200 mW
	5 : 300 mW	300 mW / No	300 mW / 350 mW	No / 350 mW
Laser diode T°	15 - 50 °C			
CW or PEAK current modulation / bandwidth	Yes - 100 Hz	Yes - 100 Hz (special version with 300 kHz modulation bandwidth available - contact us)	Yes - 100 Hz	No
Pulse duration (Ext trigger)	Any		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	< 1ns/A ; 1.5 ns
Internal rep rate adjustment			1 Hz - 4 MHz (250 MHz optional)	1 Hz - 20 MHz
Temporal Jitter	CW only		< 8 ps	< 2 ns (8 ps with clock synchronization)
Adj. CW offset (pulse regime)			Optional	No
Interface/GUI/libraries	USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python (LINUX)			

INTEGRATED VERSIONS :

GUI (examples)



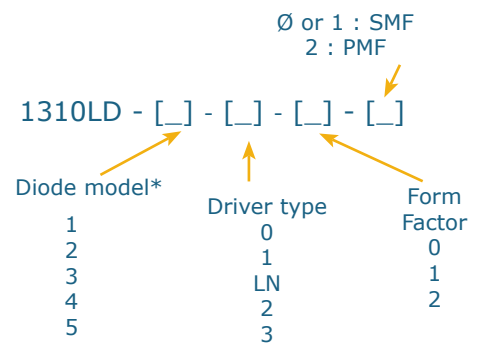
Mechanical (examples) :



Classification :

Name	1310 LD :
Diode model*	1: 10 mW DFB Butterfly singlemode 2: 40 mW DFB Butterfly singlemode 3: 100 mW DFB Butterfly singlemode 4: 190 mW DFB Butterfly singlemode 5: 300 mW Fabry-Pérot with optional Bragg grating
Driver Electronics :	0: Laser diode alone 1: CCS-CW (open driver for CW only) LN : Ultra-Low noise Driver 2: CCS-std (Pulse and CW Driver) 3: SHAPER (pulse only with user design pulse shape)
Form Factor	0: Laser diode alone 1: Open frame 2: Integrated
SMF or PM	1: SM Fiber 2: PM Fiber

Ordering information :



Example : 1310LD-3-2-1-2 = 1310 nm 100 mW DFB laser diode with a PM Panda fiber output, mounted on a «pulsed On/Off & CW» open frame driver

* : See the product webpage tables (scroll down the page) to see all configurations, prices, options and lead times