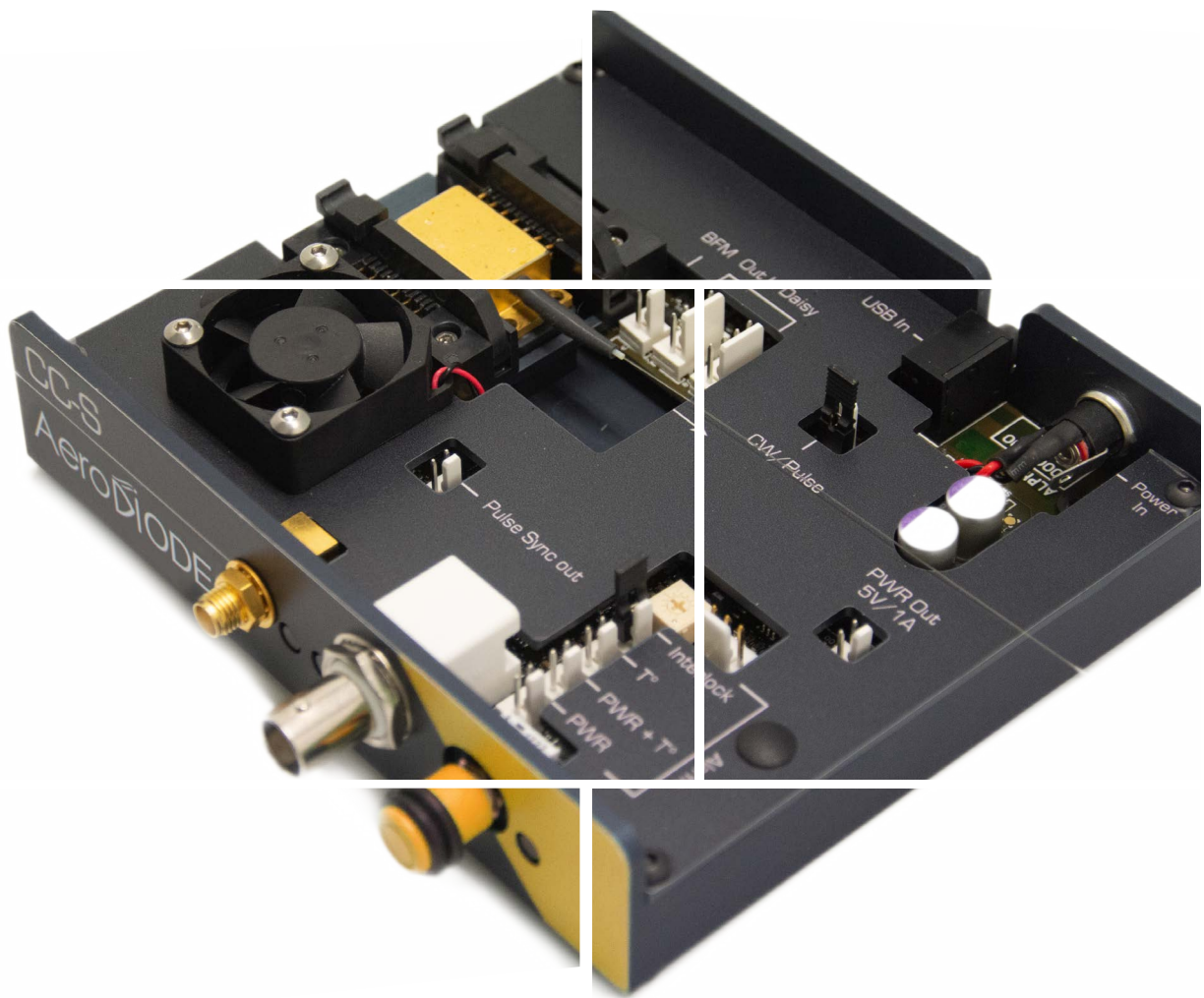


1310 nm laser diodes & turn-key solutions



Aero **Di**ODE

Choose your own fiber-coupled DFB or Fabry-Pérot laser diode + turn-key driver solution at 1310 nm

Standard singlemode DFB or Fabry-Pérot laser diodes from 10 to 500mW are offered as stock items or associated with a low noise or ultra-low noise CW or nanosecond pulsed turn-key driver.

1st

Choose your laser diode:

Diode Model*	Power (CW)	Power (Pulse) (typ)	Technology	Wavelength (nm)	Fiber	Emission line-width (typ)	Form-factor
1	10mW	15mW	Single frequency DFB	1310 +/-5 nm	SMF or PM versions available	~1 MHz (<2 MHz)	14 pin Butterfly- type-1 (other pin configuration available on demand)
2	40mW	60mW				~200 kHz (<600 kHz)	
3	100mW*	120mW				~<100 kHz	
4	190mW*	200mW					
5a	300mW	350mW	Single mode Fabry-Pérot w. optional Bragg	1310 +3/-2 nm		~ 5-10 nm ~0.1 nm with Bragg option	14 pin Butterfly- type 1
5b	350mW	500mW		1310 +/-5 nm			
6	500mW	650mW		1310 +/-5 nm			

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



2nd

Choose your Driver performance:

LASER DIODE VERSION :	CW Driver («CCS-CW» is the open driver and «CCSI-CW» is the integrated version)	CW HP2 Driver («CCS-CW-HP2» is the open driver and «CCSI-CW-HP2» 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 : 10mW (DFB) 2 : 40mW (DFB) 3 : 100mW (DFB) 4 : 190mW (DFB) 5a : 300mW (DFB) 5b : 350mW (FP) 6 : 500mW (FP)	10mW / No 40mW / No 100mW / No 200mW / No 300mW / No No No	No No No No No 350mW/No 500mW/No	10mW / No 40mW / No 100mW / No 200mW / No 300mW / No 350mW/No 500mW/No	10mW / 15mW 40mW / 60mW 100mW / 120mW 190mW / 200mW 300mW / 350mW 250mW / 500mW 250mW / 650mW	No / 15mW No / 60mW No / 120mW No / 200mW No / 350mW No / 500mW (typ) No / 650mW (typ)
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)					

3rd

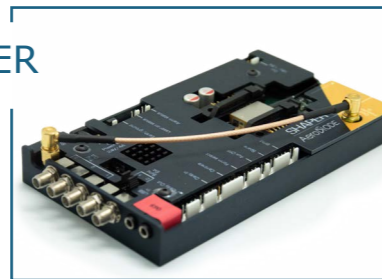
Choose your product form factor: OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS:



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

SHAPER



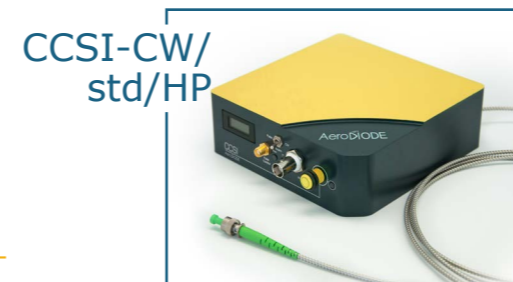
> Open-frame driver for «Shaper» electronic board and single mode diodes

CCS-Low noise



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

INTEGRATED VERSIONS:



> Integrated version for CW, std and HP electronics boards

SHAPER-I



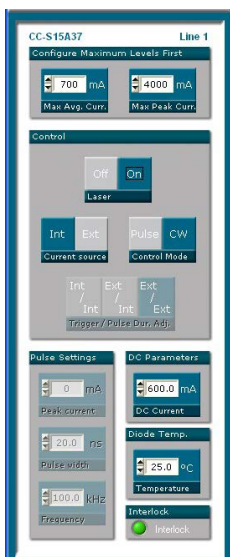
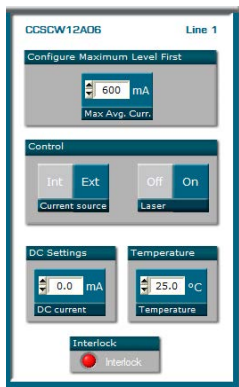
> Integrated version for Shaper electronics board

CCSI-Low noise

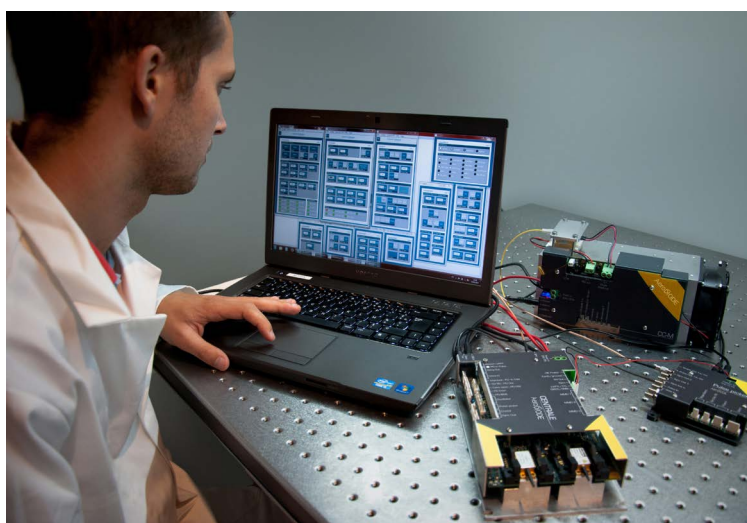
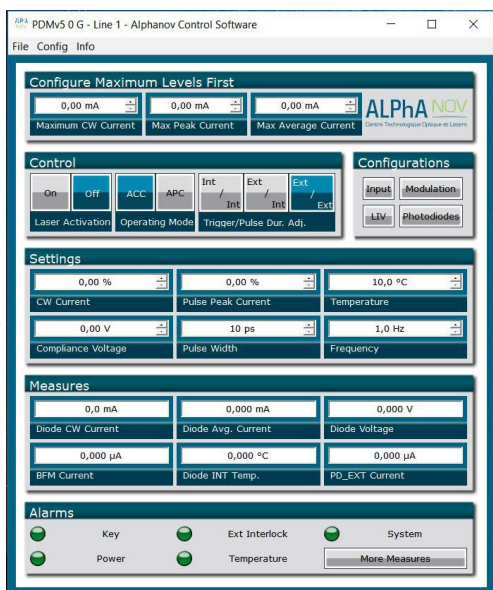
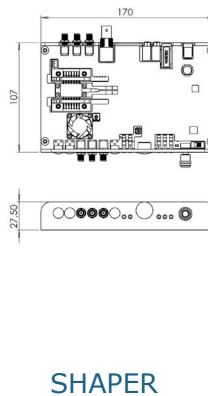
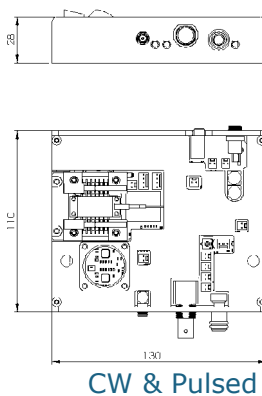


> Integrated version for Shaper electronics board

GUI (examples)



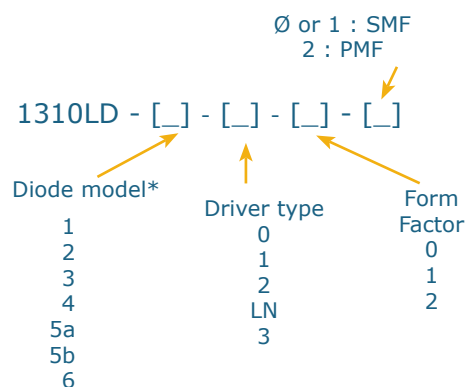
Mechanical (examples) :



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 5a: 300 mW DFB Butterfly singlemode 5b: 350 mW Fabry-Pérot with optional Bragg grating 6: 500 mW Fabry-Pérot with optional Bragg grating
Driver Electronics :	0: Laser diode alone 1: CCS-CW or CCS-CW-HP2 (CW drivers) 2: CCS-std (Pulse and CW Driver) LN: Ultra-Low noise 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