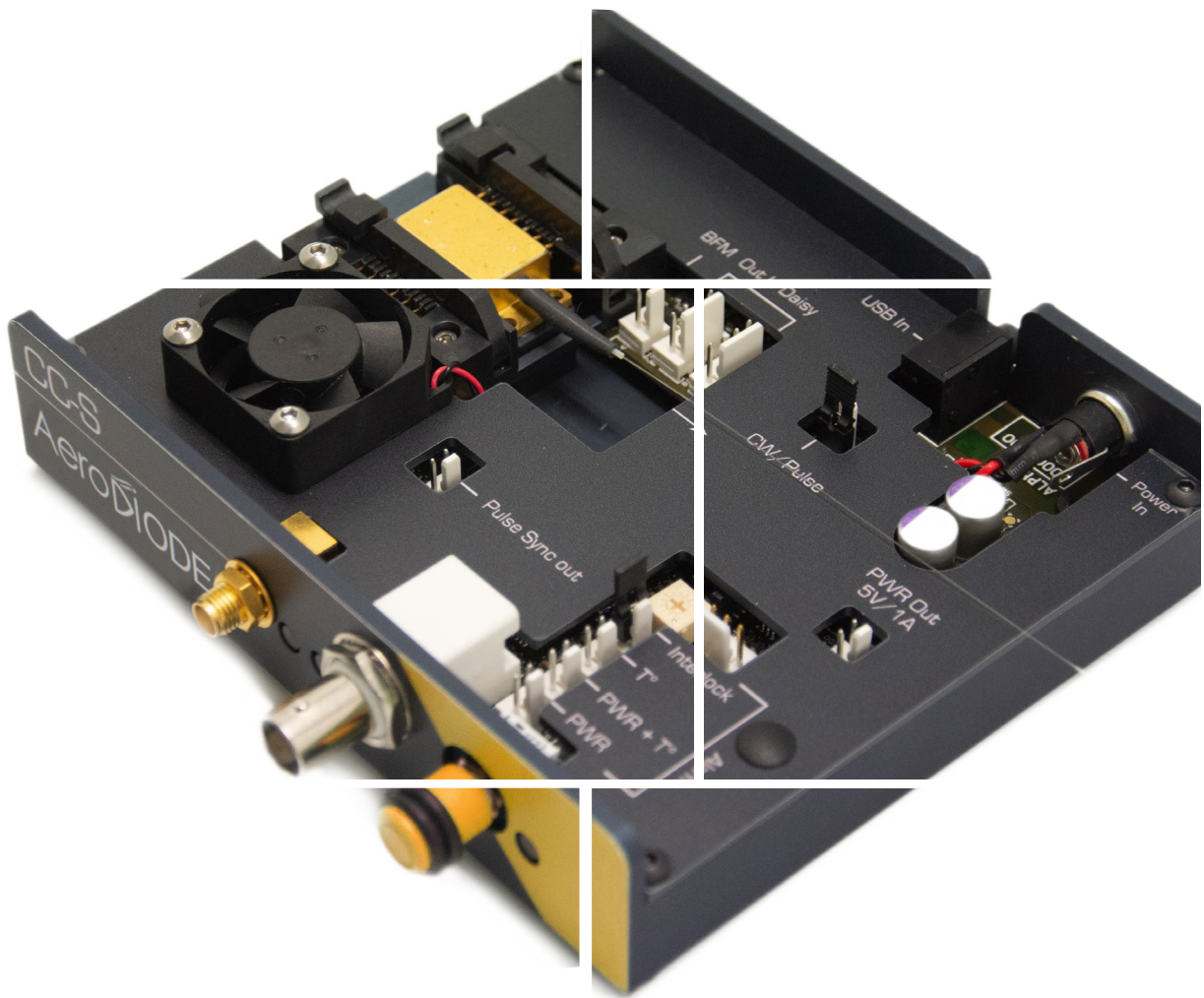


# 915 nm Laser diode & Turn-key solutions



Aero **Di**ODE

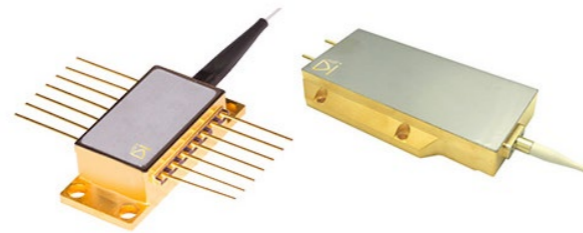
# 915 nm laser diode

## Choose your own fiber-coupled laser diode + turn-key Driver solution

Standard singlemode or multimode laser diodes are sourced from the most reliable manufacturers and offered as stock items or associated with a CW or pulsed turn-key laser diode driver.

### 1st

Choose your laser diode :

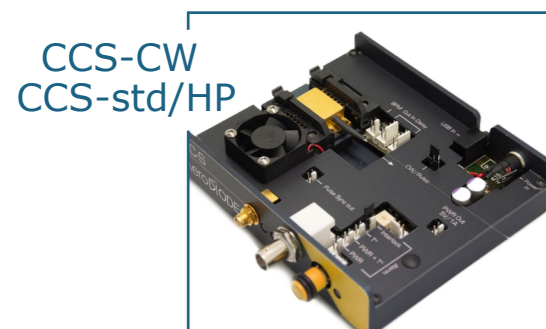


Diode type	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber	Emission Bandwidth (typ)	Package (mm)
1	300 mW	600 mW	Butterfly single mode	915±5nm	PM 980	~0.1 nm	14 pin Butterfly-type 1
2	10 W	10 W	Multimode single emitter	915 ± 10 nm	Multimode 106 µm NA=0.22	~5 nm	38.5*45*10
3	45 W	45 W	Multimode multi emitter				
4	80 W	80 W					
5	140 W	140 W					

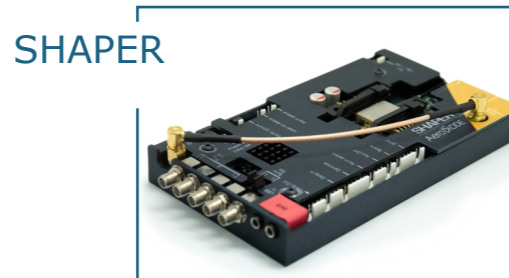
### 3rd

Choose your product form factor : OPEN-FRAME or INTEGRATED

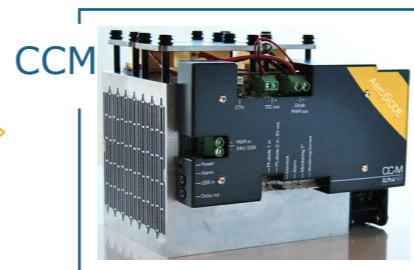
#### OPEN-FRAME VERSIONS :



➤ Open-frame driver for CW, std and HP electronics Boards for single mode diodes



➤ Open-frame driver for «Shaper» electronic Board and single mode diodes



➤ «CCM» Open-frame driver for Multimode diodes

#### INTEGRATED VERSIONS :



➤ Integrated version for CW, std and HP electronics Boards



➤ Integrated version for Shaper electronics Board



➤ «CCMI» Integrated driver for Multimode diodes

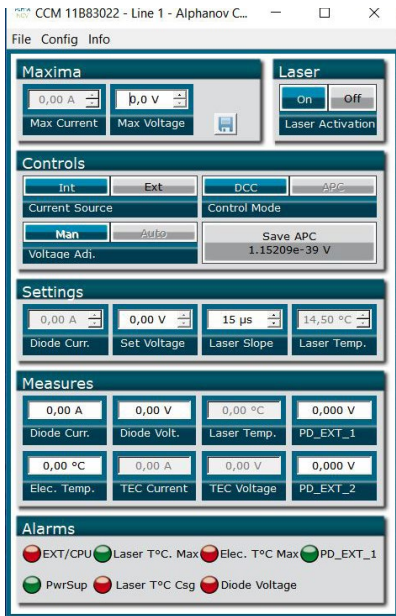
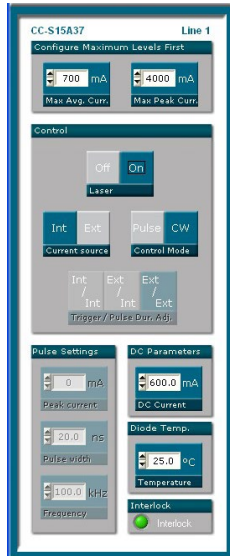
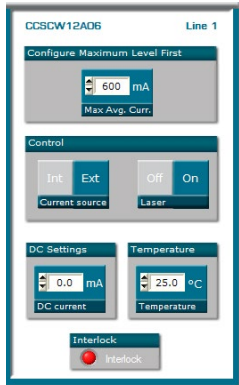
## 2nd

Choose your Driver performance :

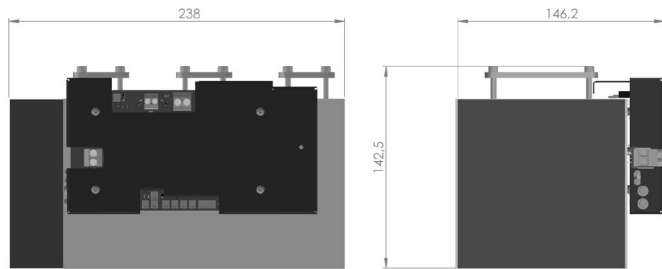
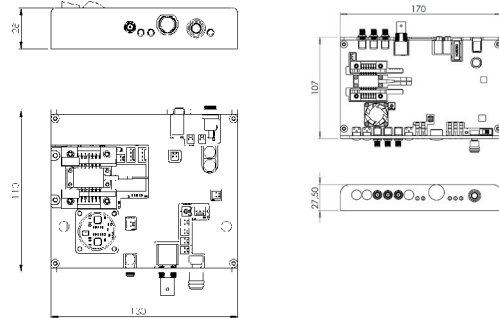
	808 nm Laser Diode version	LASER DRIVER VERSION :			
		CW Driver (for singlemode diodes : «CCS-CW» is the open driver and CCSI-CW is the integrated version)	Pulse & CW Driver (from 1 ns to CW : «CCS» is the open driver and CCSI is the integrated version)	User design pulse shape Driver («SHAPER» open driver from 0.5 ns to 8 µs)	Multimode diode Driver (High power driver for 10 to 150 W diodes : CCM is the open version, CCMI is the integrated version)
Output Power - CW / Pulse (Typical values)	1- single mode 2- Multimode : 10 W/45 W/ 80 W or 140 W	300 mW / No	250 mW / 1000 mW	No / 1000 mW	Not compatible  10 W / 10 W 45 W / 45 W 80 W / 80 W 140 W / 140 W
User design Pulse shape	Any	No	No (On-Off only)	Yes	No
Laser diode T°		15 - 50 °C			15 - 40 °C
Pulse duration (Ext trigger)		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		< 1ns/A ; 1.5 ns	few µsec
Internal rep rate adjustment		1 Hz - 4 MHz (250 MHz optional)		1 Hz - 20 MHz	No
Temporal Jitter		< 25 ps		< 2 ns	
Adj. CW offset (pulse regime)		No			Yes (external mode)
Interface/GUI/libraries		USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python			

# Technical Specifications

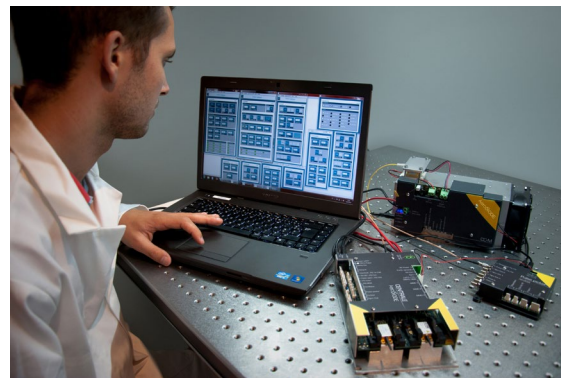
## GUI (examples)



## Mechanical (examples) :



CCM (for Multimode diodes)



## Classification :

Name	915LD :
Diode type	1: 300 mW Butterfly singlemode 2: 10 W multimode 3: 45 W multimode 4: 80 W multimode 5: 140 W multimode
Driver Electronics :	0: No driver (laser diode alone) 1: CW (CW laser emission only) 2: Pulsed and CW Driver 3: SHAPER (User design temporal pulse shape) 4: CCM/CCMI (for multimode high power laser diodes)
Form Factor	0: No driver (laser diode alone) 1: Open frame driver version 2: Integrated driver version

## Ordering information :

