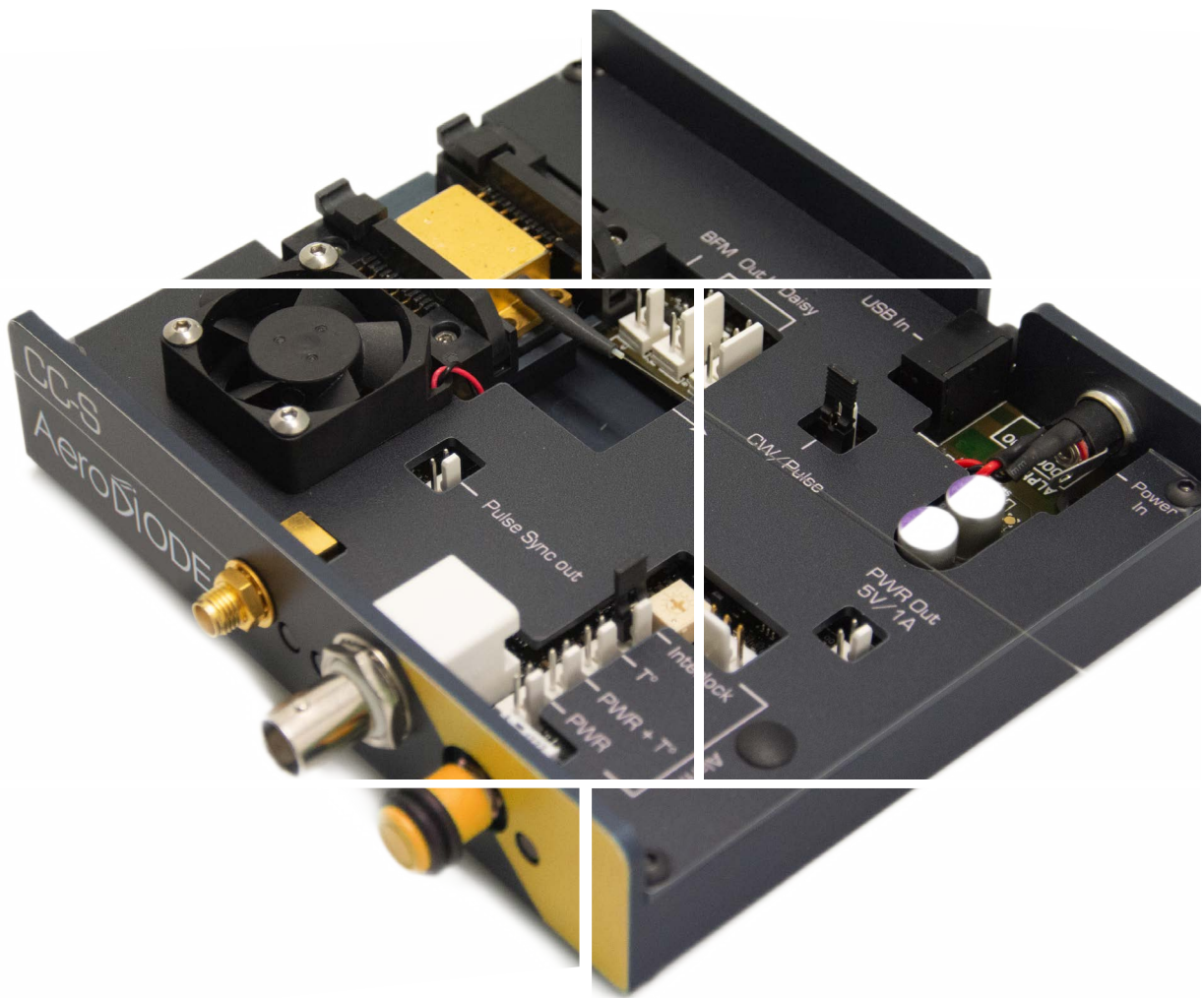


980 nm laser diode & Turn-key solutions

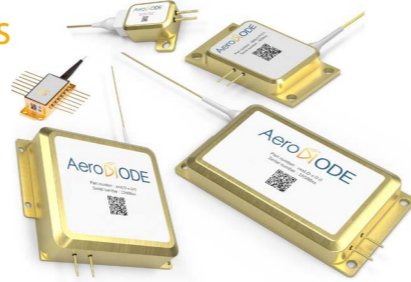


Aero **Di**ODE

980 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	500 mW	1000 mW	Butterfly single mode	981±0.5nm	PM 980	~0.1 nm	14 pin Butterfly-type 1
2	1 000 mW	1500 mW					
3	10 W	10 W	Multimode single emitter	980 ± 10 nm	Multimode 106 µm NA=0.22	~5 nm	50*8.5*7.7
4	30 W	30 W	Multimode multi emitter				43*25*10.6
5	70 W	70 W					80*48*16
6	150 W	150 W					80*80*24.8

3rd

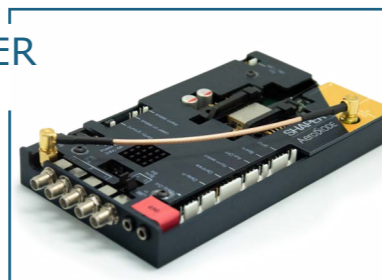
Choose your product form factor : OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS :



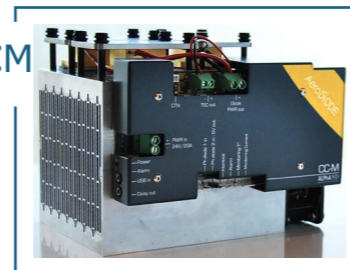
➤ Open-frame driver for CW, std and HP electronics Boards for single mode diodes

SHAPER



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

CCM



➤ «CCM» Open-frame driver for Multimode diodes

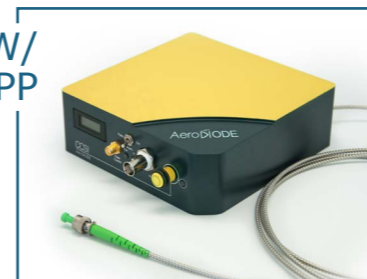
2nd

Choose your Driver performance :

	980 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 500 mW	500 mW / No	500 mW / 1000 mW	No / 800 mW	Not compatible
	2- single mode 1000 mW	900 mW / No TDLAS : 1000 mW / No	450 mW / 1500 mW	No / 900 mW	
	3-6: Multimode : 10 W/30 W/ 70 W or 150 W	Not compatible			10 W / 10 W 30 W / 30 W 70 W / 70 W 150 W / 150 W
User design Pulse shape	No		No (On-Off only)	Yes	No
Laser diode T°	15 - 50 °C				15 - 40 °C
Pulse duration (Ext trigger)	Any		0.5 ns - CW	0.5 ns - 8 µs	10 µs - CW
Pulse duration (Internal pulse generator)	Any		0.5 ns - 500 ns		No
Typ rise/fall time ; Min Pulse duration	Any		3 (ns/A) ; 1.5 ns	< 1ns/A ; 1.5 ns	few µsec
Internal rep rate adjustment	Any		1 Hz - 4 MHz (250 MHz optional)	1 Hz - 20 MHz	No
Temporal Jitter	Any		< 25 ps	< 2 ns	
Adj. CW offset (pulse regime)	Any		Optional	No	Yes (external mode)
Interface/GUI/libraries	USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python				

INTEGRATED VERSIONS :

CCSI-CW/ std/HP/HPP



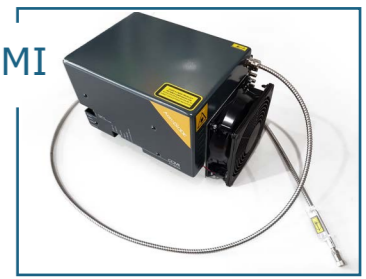
➤ Integrated version for CW, std and HP electronics Boards

SHAPER-I



➤ Integrated version for Shaper electronics Board

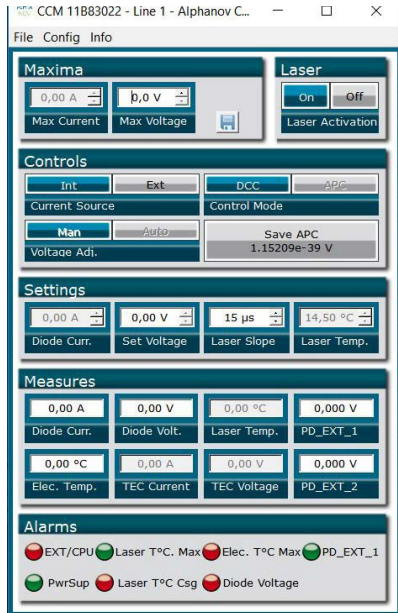
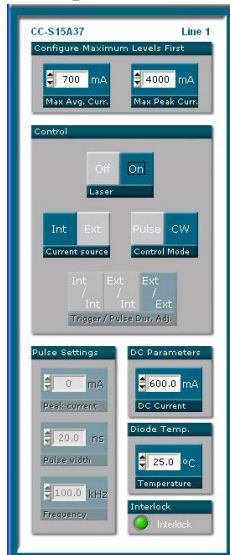
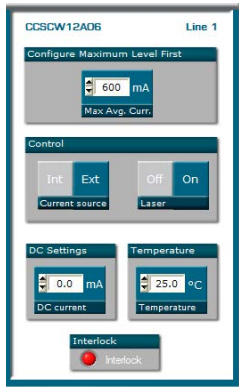
CCMI



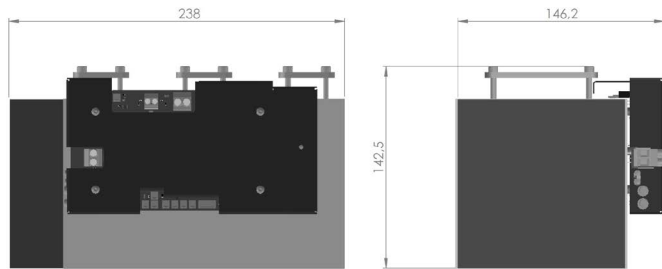
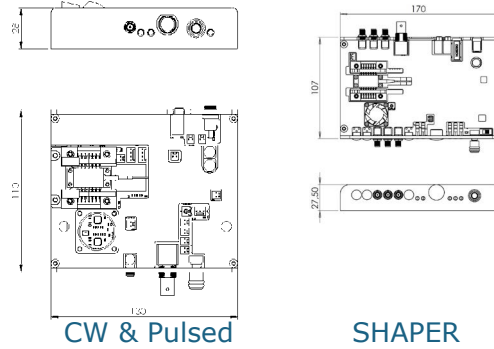
➤ «CCMI» Turn-Key driver for Multimode diodes

Technical Specifications

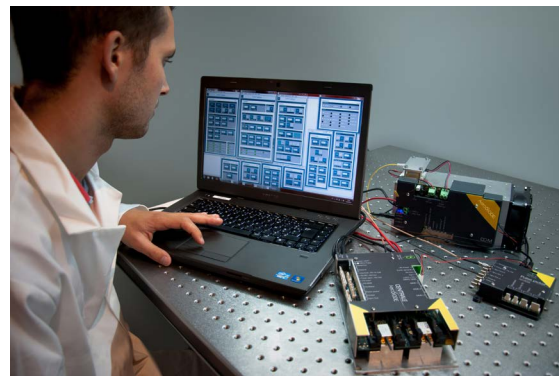
GUI (examples)



Mechanical (examples) :



CCM (for Multimode diodes)



Classification :

Name	980LD :
Diode type	1: 500 mW Butterfly singlemode 2: 1000 mW Butterfly singlemode 3: 10 W multimode 4: 30 W multimode 5: 70 W multimode 6: 150 W multimode
Driver Electronics :	0: No driver (laser diode only) 1: CW driver (For CW laser emission only) «TDLAS» : High-end CW driver for high power and low noise 2: Pulse and CW driver 3 : SHAPER (User design temporal pulse shape) 4 : High Power (for multimode diodes only)
Form Factor	0 : No driver (laser diode only) 1: Open-frame 2 : Integrated

Ordering information :

