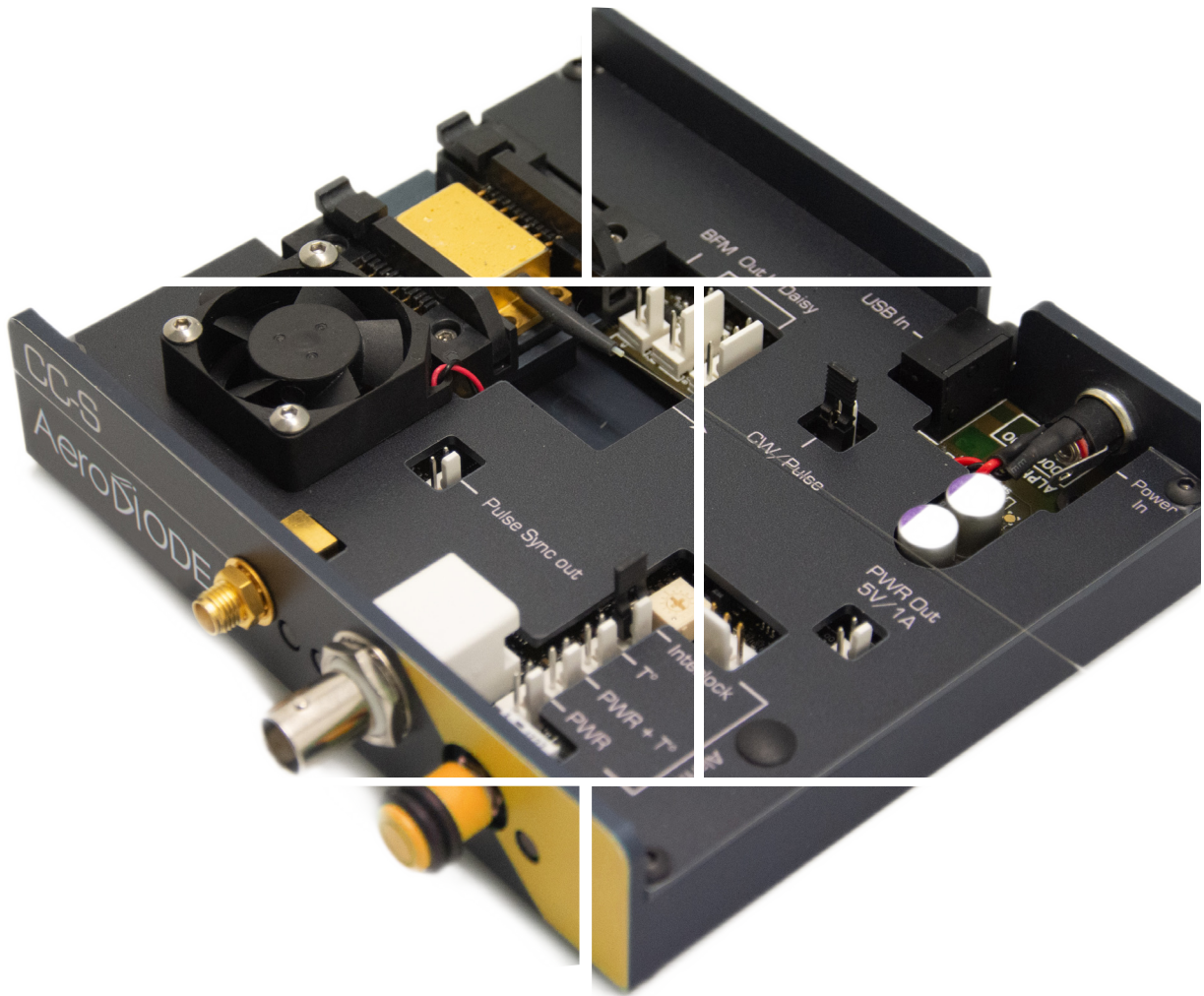


785 nm Laser diodes & Turn-key solutions

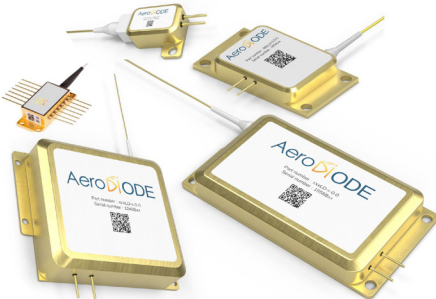


Aero*Di*ODE

785 nm laser diode

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

Standard singlemode or multimode laser diodes in the 785-790 nm wavelength range are offered as stock items or combined with a CW or pulsed turn-key laser diode driver.



1st

Choose your laser diode :

Diode model	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber (or eq.)	Emisison Bandwidth (typ)	Package (mm)
1	150 mW	250 mW	Butterfly single mode	785 ± 3 nm (785 nm ± 1 nm with FBG option)	Hi 780	~1 nm (0.2 nm with FBG OPTION)	14 pin Butterfly-type 1
2	250 mW	400 mW		788 ± 3 nm (785 nm ± 1 nm with FBG option)	PM 780 (option)		
3	600 mW	600 mW	Butterfly MULTI-MODE with VBG	785 ± 0.5 nm	Multimode 106 μm NA=0.22	< 0.1 nm	30.9*17*7.7
4	2 W	2 W	Multimode single emitter	785 ± 3 nm		3.5 nm	
5	6 W	6 W	Multimode multi emitte			~ 4.5 nm	49*34*13.25
6	20 W	20 W				123.5*50*22	

3rd

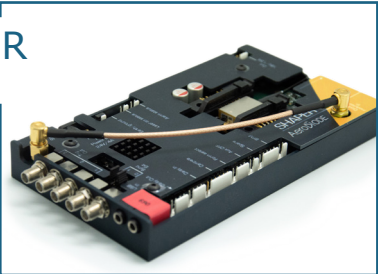
Choose your product form factor : OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS :

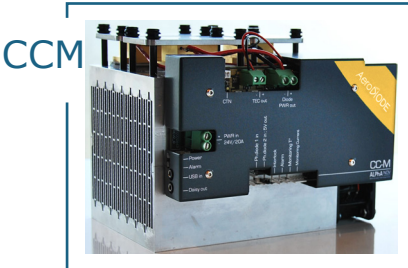


➤ Open-frame driver for CCS-CW, CCS-std and CCS-HP electronics Boards for single mode diodes

SHAPER



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



➤ «CCM» Open-frame driver for Multimode diodes

2nd

Choose your Driver performance :

		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-std » is the open driver and CCSI-std is the integrated version)	User design pulse shape Driver (« Shaper » open driver / « Shaper-I » integrated version) 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- Butterfly singlemode	180 mW / No	180 mW / 250 mW	No / 250 mW	Not compatible
		250 mW / No	250 mW / 400 mW	No / 400 mW	Not compatible
	2- Butterfly Multimode	600 mW / No	600 mW / 600 mW	No / 600 mW	Not compatible
	3- Multimode : 2 W / 6 W / 20 W	Not compatible			2 W / 2 W 6 W / 6 W 20 W / 20 W
Laser diode T°	Any	15 - 50 °C			15 - 40 °C
Pulse duration (Ext. trigger)		CW only	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 optical pulse duration (Butterfly package diodes)			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	
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 (single mode diodes)

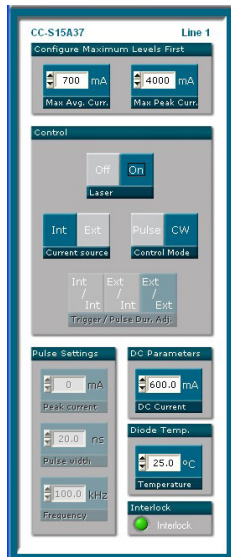
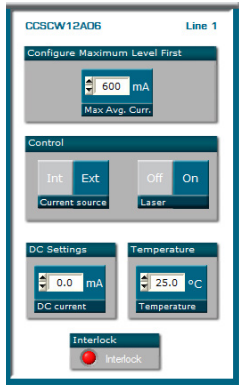
CCMI



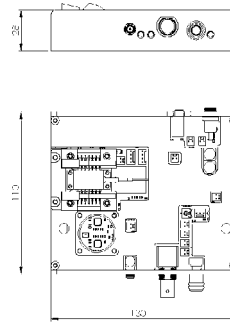
➤ «CCMI» Integrated driver for Multimode diodes

Technical Specifications

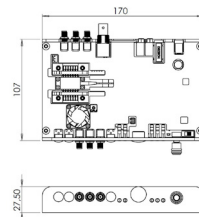
GUI (examples)



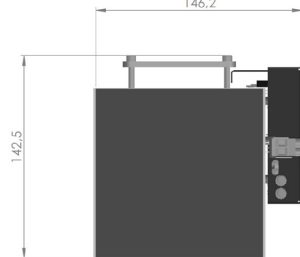
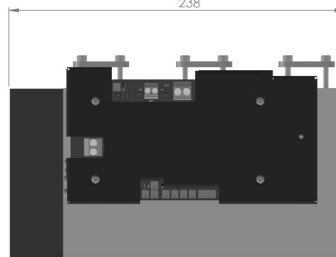
Mechanical (examples) :



CW & Pulsed



SHAPER

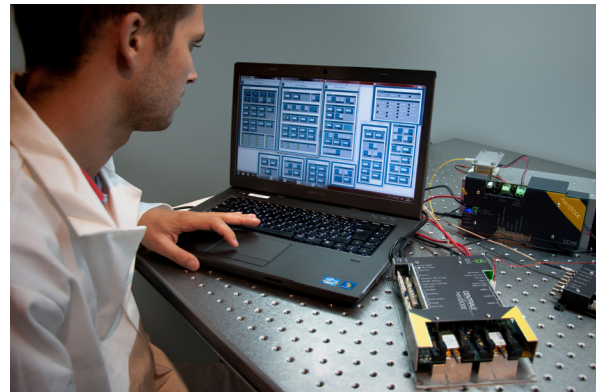


OPTIONS (see all prices on the website page) :

- * PM fiber output
- * Narrow spectrum (FBG-based)
- * Optical collimator (3mm or high power 10 mm version)
- * 250 MHz rep rate for pulse diode +driver versions
- * Special Benchtop version for lab use (see the description on the website page and the picture below)



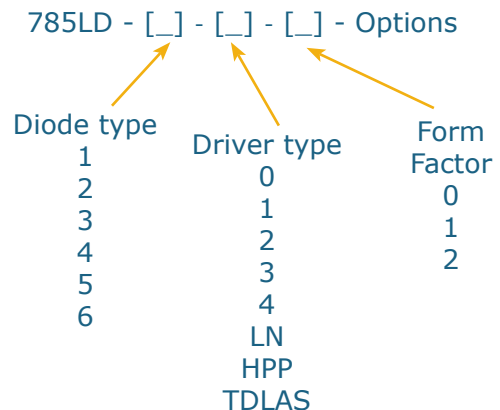
CCM (for Multimode diodes)



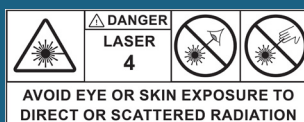
Classification :

Name	785LD :
Diode type	0: Laser diode only 1: 180 mW Butterfly singlemode 2: 250 mW Butterfly singlemode 3 : 600 mW Butterfly Multimode 3: 2 W multimode 4: 6 W multimode 5: 20 W multimode
Driver Electronics :	0: No driver (laser diode alone) 1: CCS/CCSI-CW (CW laser emission only - for singlemode laser diodes) 2: CCS-CCSI-std (Pulsed and CW Driver - for singlemode laser diodes) 3: SHAPER (User design temporal pulse shape - for singlemode laser diodes) 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 :



AeroDiODE



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