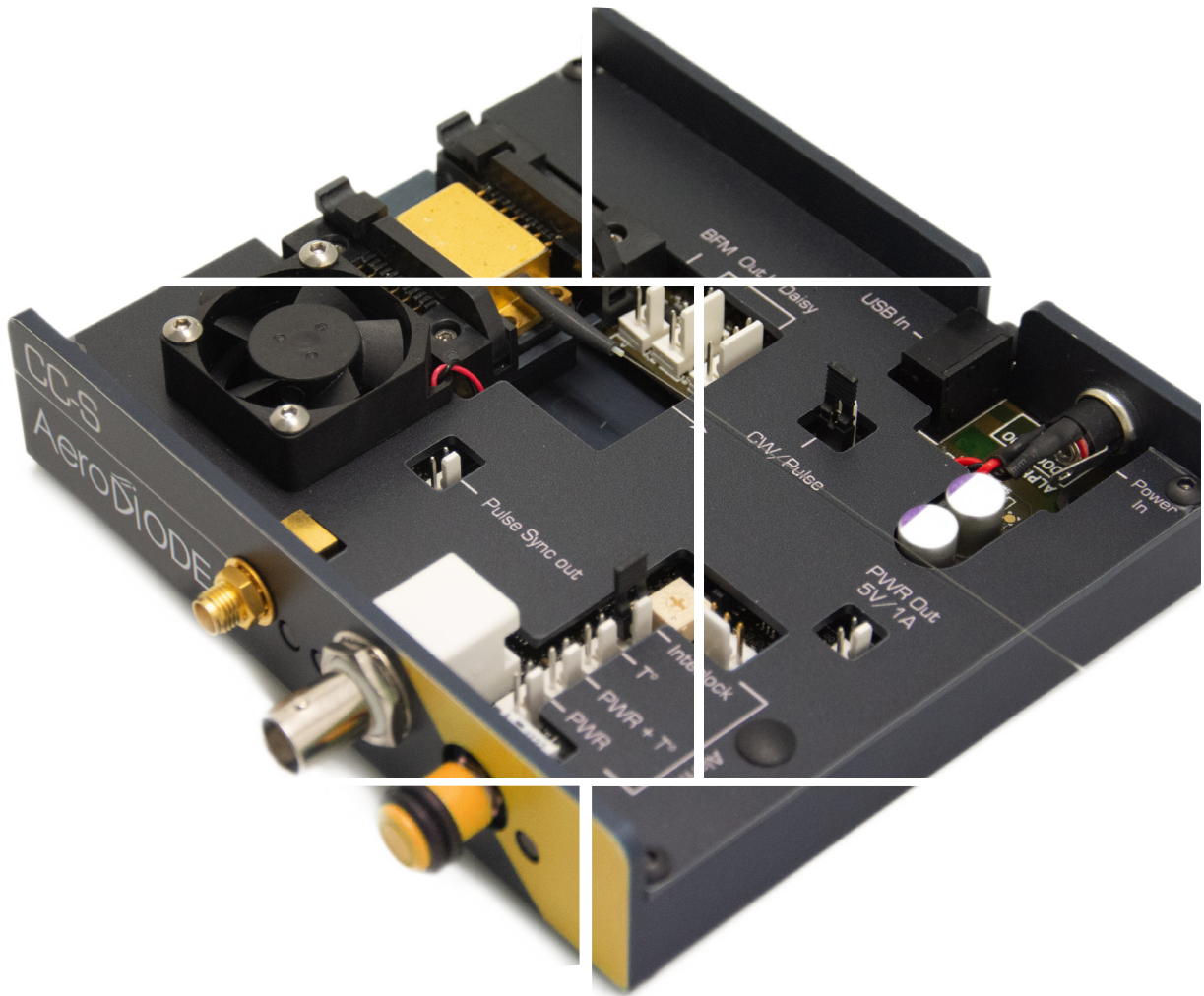


808 nm Laser diode & Turn-key solutions



AeroDiODE

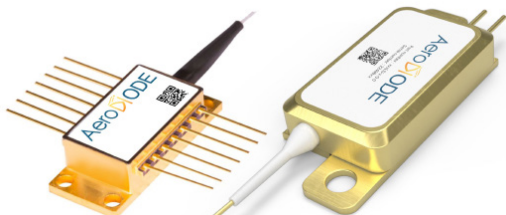
808 nm laser diode

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

Standard singlemode or multimode laser diodes are offered as stock items or associated with a CW or pulsed open-frame or turn-key laser diode driver.

1st Choose your laser diode :

Diode type	Power (CW)	Power (Pulse)	Nominal Levels (typ.)	Technology	Wave-length (nm)	Fiber	Emission BW	Package (mm)
1	250 mW	400 mW	400 mA - 2 V	Butterfly single mode	808 ±3nm (±1nm Typ.)	PM 780	~1 nm	14 pin Butterfly type 1
2	10 W	10 W	3.5 A - 5.5 V	Multimode single emitter		Multimode 100 μm NA=0.22	~ 3.5 nm	30.9*17*7.7 or 55.21.5*9.2
3	35 W	35 W	6.5 A - 13.5 V	Multimode multi emitter	808 ±4nm (±1nm Typ.)			66.5*36*10
4	60 W	60 W	7 A - 22.5 V				Multimode 200 μm NA=0.22	~ 4 nm
5	100 W	100 W	9.5 A - 27 V		142*45*20			
6	220 W	220 W	11.5A/ 44 V		160*73*22			
7	350 W	350 W	11 A/69 V		808 ±10 nm		222*50*25	

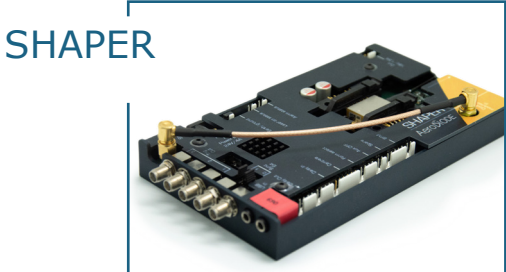


3rd Choose your product form factor : OPEN-FRAME or TURN-KEY

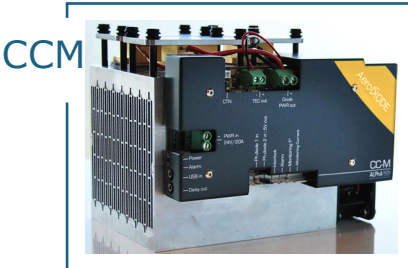
OPEN-FRAME VERSIONS :



➤ 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 (user design pulse shape driver)



➤ «CCM» Open-frame driver for Multimode diodes

2nd Choose your Driver performance :

		LASER DRIVER VERSION :			
	808 nm Laser Diode 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	250 mW / No	250 mW / 400 mW	No /400 mW	Not compatible
	2- to 5- Multimode 10W 35W 60W 100W	Not compatible			10 W / 10 W 35W / 35W 60W / 60W 100W / 100W
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)		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 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				

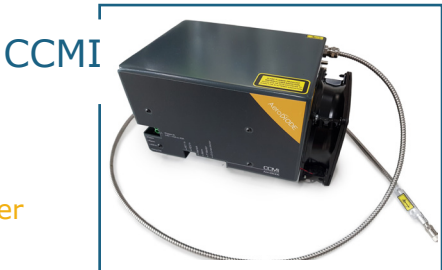
TURN-KEY VERSIONS :



➤ Integrated version for CW, std and HP electronics Boards



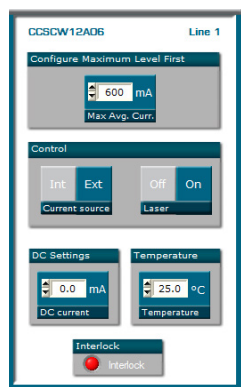
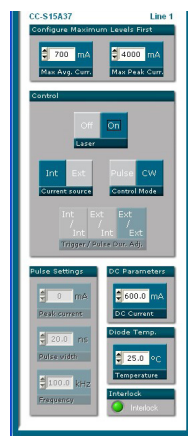
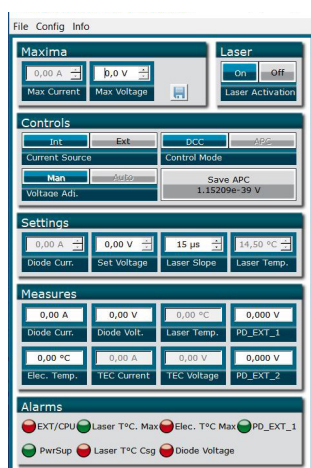
➤ Integrated version for Shaper electronics Board



➤ «CCMI» Turn-key driver for Multimode diodes

Technical Specifications

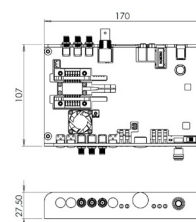
GUI (examples) :



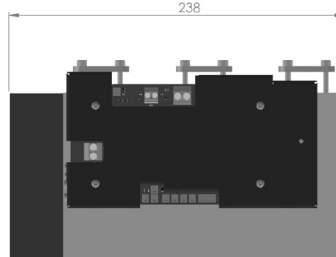
Mechanical (examples) :



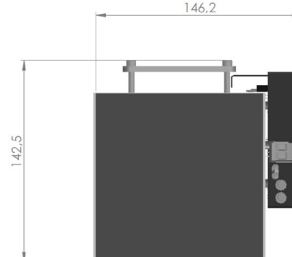
CW & Pulsed



SHAPER



CCM (for Multimode diodes)



Ordering guide :

Please be advised that compatibility for certain options and wavelengths is model-specific. Refer to the product webpage for a comprehensive list of part numbers.

Wavelength	Laser diode model	Driver model	Form factor	Fiber type	Internal isolator	Laser diode options*	Driver options*
[...]LD	[...]	ø : No driver	ø : No driver	SM : Singlemode fiber	ø : No int. isolator (multimode diode)	ø : No laser diode option	ø : No driver option
See website for more information.		CW : CCS-CW	1 : Open frame	PM : Polarization maintaining fiber	NI : No int. isolator (singlemode diode)	T2 : Type 2 ⁽²⁾	250 : 250 MHz ⁽⁴⁾
		HP2 : CCS-CW-HP2	2 : Integrated	MM : Multimode fiber	II : Internal isolator	T2T : Type 2 Bias T ⁽²⁾	FUCE : Benchtop ⁽⁵⁾
		STD : CCS-std	OEM : For integration ⁽¹⁾		I2 : Internal double stage isolator	T2A : Type 2 Bias T Anode Grounded ⁽²⁾	Only for CCM driver models :
		HP : CCS-HP				TS : Special type ⁽²⁾	LN : Ultra-low Noise version
		UHP : CCS-UHP				FBG : Fiber Bragg Grating	TOMBAK : Synchronization module
		HPP : CCS-HPP				FI : External fiber isolator	DB : Double board
		LN : CCS-LN				FI2 : External fiber double stage isolator	FUCE-STD
		TDL : TDLAS				Only for laser diodes > 1 W :	FUCE-HP
		SHA : Shaper				SMA-HP : High power connector	
		CEN : Centrale				R : Red aiming beam	
		CCMMINI				LX : specific fiber length (X in cm) ⁽³⁾	
		CCMSTD				CX : specific core diameter (X in μm) ⁽³⁾	
		CCMHP					
		CCMUHP					

(1) Not available for CCM driver models.

(2) Only compatible with some of the singlemode laser diodes.

(3) Please contact us.

(4) Available only for driver models STD, HP and UHP.

(5) Available only for integrated driver models CW, STD, HP and UHP.

*Each option is separated by a slash.

The Part Number list is subject to update. Access the current version [here](#).