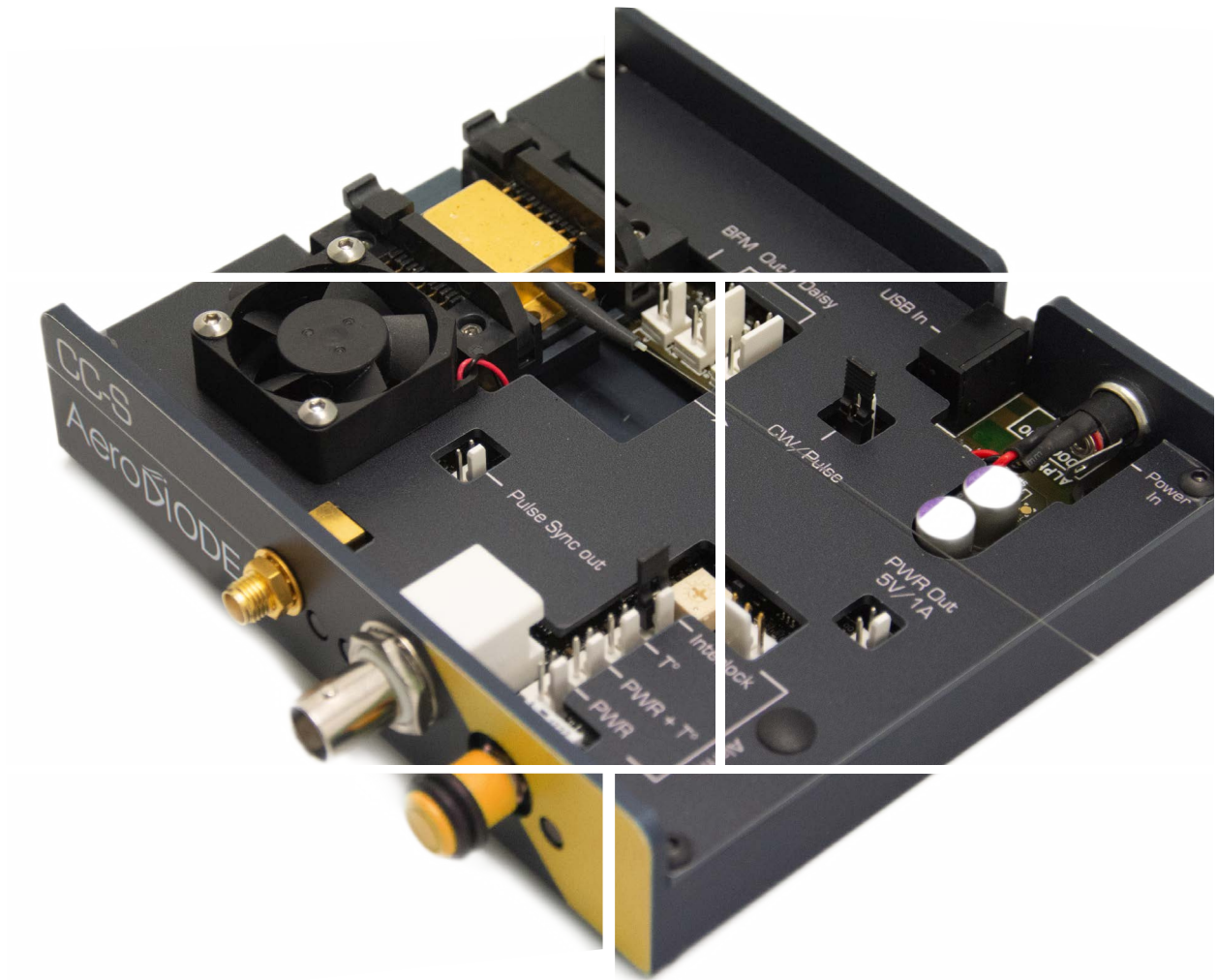


1060 nm Laser Diode & Turn-key solutions

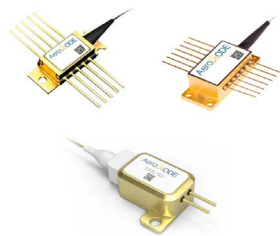


AeroDiODE

1060 nm laser diode

Choose your own Bragg, DFB or multimode laser diode + driver solution

Standard Bragg or DFB laser diodes are offered as Stock items or associated with a CW and/or Pulsed Turn-Key Laser Diode Driver.



1st Choose your laser diode :

Diode type	Technology	Wavelength (nm)	Power (CW)	Power (Pulse)	Nominal Levels (typ.)	Fiber	Package
1	Single mode Fabry-Pérot	1060 ± 2nm	up to 700 mW	up to 1500 mW	1200mA - 1.7V	PM singlemode	14 pin Butterfly type 1
2a*	Single frequency DFB	1063.5 ± 1nm	up to 200 mW	up to 500 mW (700 mW typical max value)	350mA / 1.7V		10 pin Butterfly Type 1
2b**		1064 ± 1nm					
2c***		1060 ± 1nm	up to 70 mW	up to 100 mW	220mA / 1.7V	SM & PM singlemode	14 pin Butterfly type 1
3	Ultra Broad FBG	1064 ± 2nm	up to 650mW	up to 2000 mW	1100mA - 1.7V	PM singlemode	10 pin Butterfly Type 1
4	Multimode	1060 ± 5nm	9 W	9 W	11.7A - 1.75V	Multimode 105 µm core	30.8*17*7.7 mm

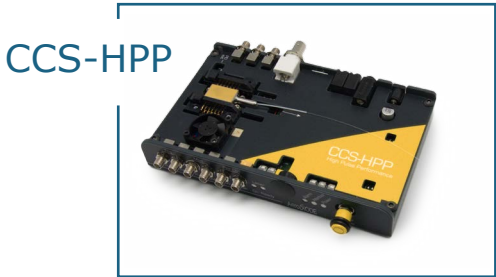
*Optimized for pulsing ** Optimized for CW & modulation ***Special mode hop free model

3rd Choose your product form factor : OPEN FRAME or INTEGRATED

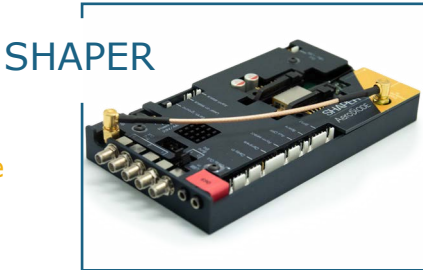
OPEN FRAME VERSIONS :



➤ Open driver for CW, std and HP electronics Boards



➤ Open driver for HPP (High Pulse Performance) electronic Board



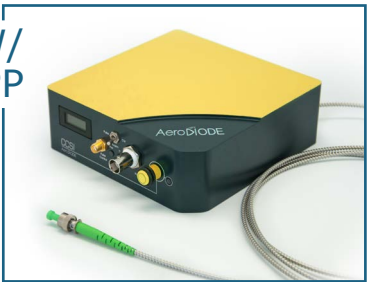
➤ Open driver for Shaper electronics Board

2nd Choose your Driver performance :

LASER DRIVER VERSION :							
	Laser Diode Model	CCS-CW	CCS-Std (from 1ns to CW)	CCS-HP (High Power)	CCS-HPP (High Pulse Performance)	SHAPER (User Design ns Pulse Shape)	CCM/CCMI High Power (for 10-100 W models only)
Output Power - CW regime (typ) - (see the product webpage for detailed peak power performances in pulse mode - scroll down the web page)	1 - Fabry-Pérot	700 mW	400 mW		400 mW	No (driver generates only pulses)	No (driver not compatible for singlemode diodes)
	2a/2b/2c - DFB	200mW/200mW/70mW					
	3- Broad FBG	650 mW	500 mW				
	4 - Multimode	No (drivers not compatible for multimode diodes)					9 W
User design Pulse shape	Any	No	No (On-Off Driver only)			Yes (embedded AWG)	Yes (analog)
Laser diode T° range		15 - 50 °C					15 - 40 °C
Pulse duration (Ext pulse 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		< 1 [ns/A] ; 1.5 ns		few µsec
Internal rep rate adjustment			1Hz - 4MHz	1Hz - 10MHz (250MHz optional)	1Hz - 250MHz	1Hz - 60MHz	No
Temporal Jitter			< 25 ps		< 8 ps	< 2 ns	
Adj. CW offset in pulse regime			No	Yes		No	Yes (external mode)
Interface/GUI/libraries		USB - Windows 7 / 10 - DLLs - Hexa/Linux - Labview - Python					

INTEGRATED VERSIONS :

CCSI-CW/ std/HP/HPP



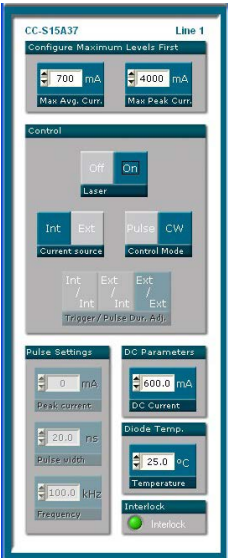
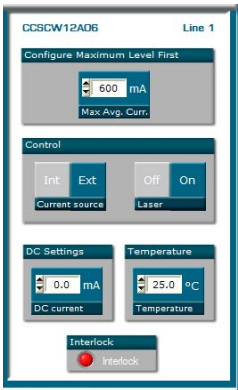
➤ Integrated version for CW, std and HP electronics board

SHAPER-I

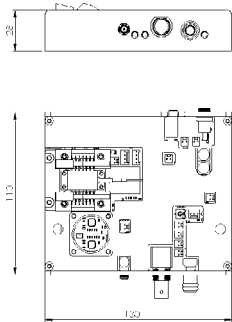


➤ Integrated version for Shaper electronics board

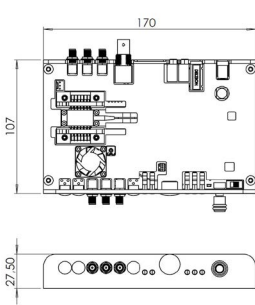
GUI (examples)



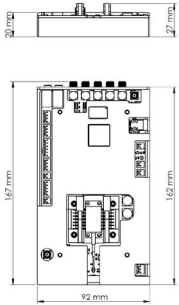
Mechanical (examples) :



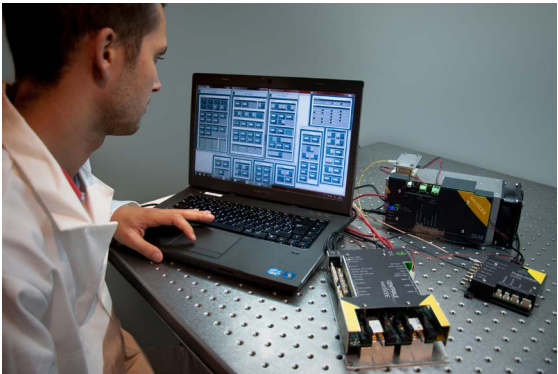
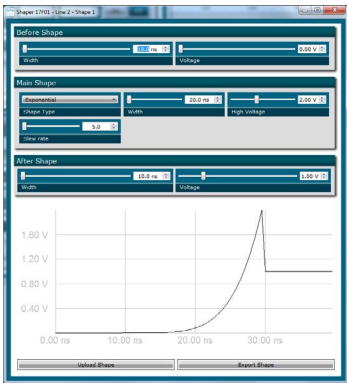
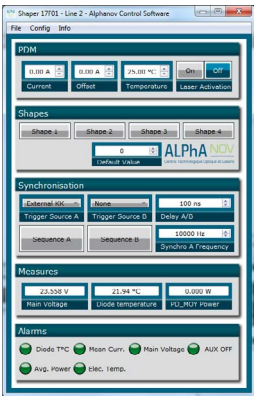
CW & Pulsed



HPP



Shaper



Classification :

Ordering information :

Name	1060LD :
Diode type	1 : Standard Fabry-Perot (14 pin Butterfly) 2a : DFB for pulsing (10 pin Butterfly) 2b : DFB for CW (10 pin Butterfly) 2c : DFB for CW with mode-hp free tuning (14 pin butterfly) 3 : Ultra Broad FBG (10 pin Butterfly) 4 : Multimode 9 W - 105 µm core
Driver electronics :	0 : No driver (laser diode only) 1 : CW driver (for CW laser diode emission only) LN : Ultra Low Noise driver (for CW narrow single frequency emission) TDLAS : Low noise driver (for CW single frequency and modulation up to 300 kHz bandwidth) 2 : Std - Pulse and CW Driver 3 : HP (High Power) 4 : HPP (High Pulse Performance) 5 : SHAPER 6 : CCM/CCMI High power (For multimode diode only)
Form Factor	0 : No driver (laser diode only) 1 : Open frame 2 : Integrated

