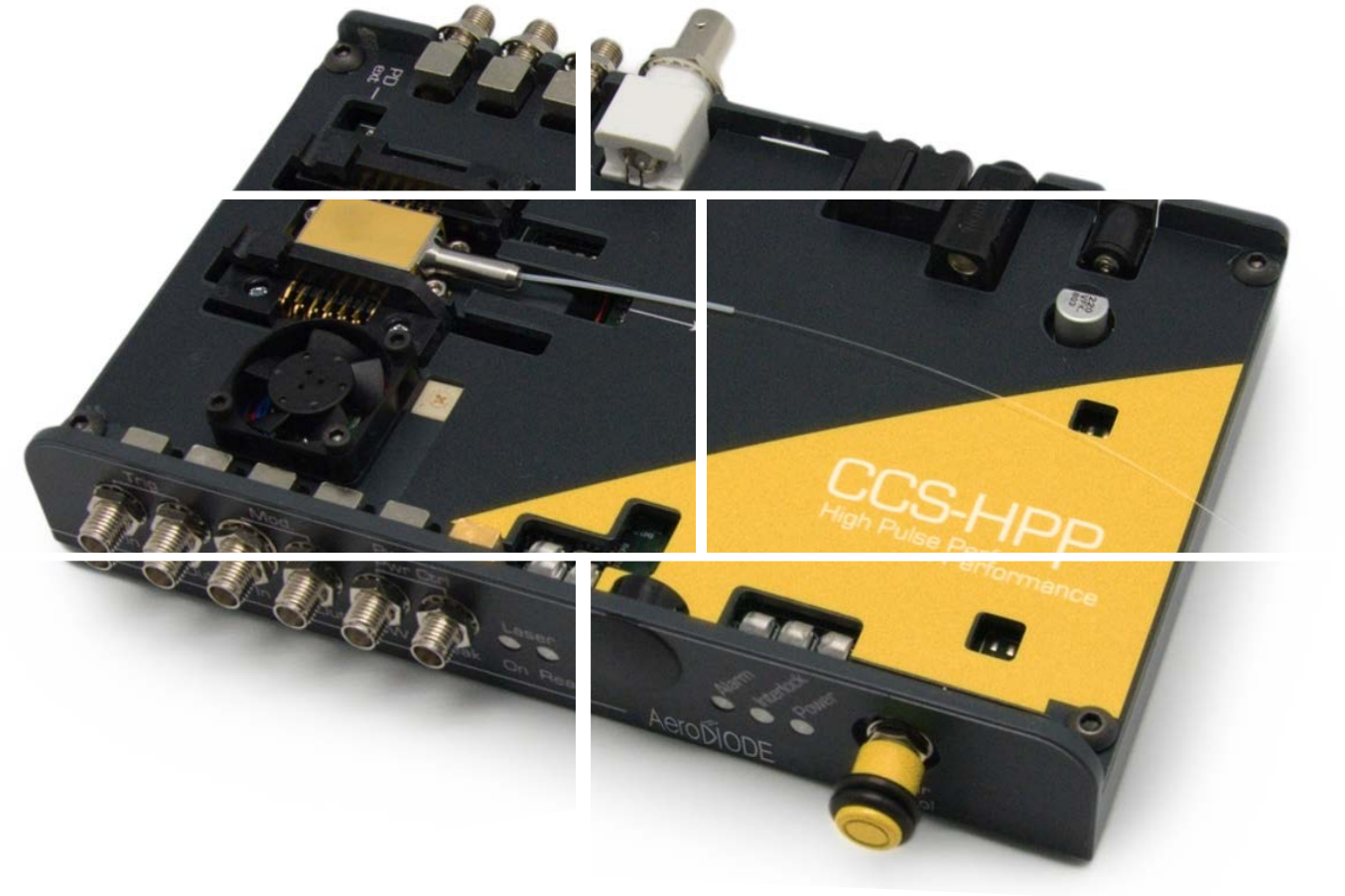
660nm Laser diodes & Turn-key solutions



AeroDIODE

www.aerodiode.com

660nm laser diode

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

Standard singlemode 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 model	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber core / NA	Emisison Bandwidth (typ)	Package
1	50mW	120mW	Butterfly singlemode Fabry-Pérot	660 ± 8nm	Singlemode 3.5µ / 0.130	~1nm	14 pin Butterfly type 1
2	100mW	150mW					
3	10W	10W	Fabry-Pérot Multimode	665 ± 5nm	Multimode 106µm / 0.22	~3nm	80*48*16

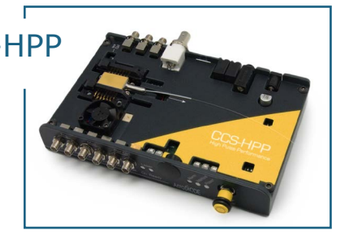
3rd Choose your product form factor: OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS:

CCS-CW
CCS-Std

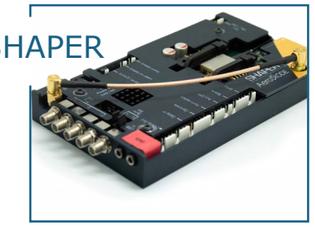
➢ Open-frame driver for CCS-CW and CCS-std electronics Boards for single mode diodes driven in both CW and pulse mode

CCS-HPP



➢ Open-frame driver for «CCS-HPP» electronic Board for singlemode diodes driven in both CW and pulse mode (High Pulse Performance model)

SHAPER



➢ «SHAPER» Open-frame pulsed driver with «user design pulse shape»

2nd Choose your Driver performance:

LASER DRIVER VERSION:

		520nm Laser Diode version	CW Driver (for singlemode diodes: «CCS-CW» is the open driver and CCSI-CW is the inte-grated version)	Pulse & CW Driver (from 1ns to CW: «CCS-std» is the open driver and CCSI-std is the integrated version)	User design pulse shape Driver: «SHAPER» is the open driver and «Shaper-I» is the integrated version (from 0.5ns to 8µs)	Multimode diode Driber (High power driver for 10W diode: CCM is the open version, CCMI is the integrated version)
Output Power - CW / Pulse (Typical values)	1 - Singlemode 50mW		50mW / No	50mW / 120mW	No / 120mW	Not compatible
	2 - Singlemode 100mW		100mW / No	100mW / 150mW	No / 150mW	Not compatible
	3 - Multimode 10W		Not compatible			10W / 10W
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 optical pulse duration (14 pin DIL package diodes)		Any		3(ns/A) ; 1.5ns	< 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 (<10 ps with clock synchroniza-tion)	
Interface/GUI/libraries			USB - Windows 10/11 - DLLs - Hexa/Linux - Labview - Python			

INTEGRATED VERSIONS:

CCSI-CW
CCSI-Std

➢ Integrated version for CCS-CW and CCS-Std (pulse & CW) electronic Boards

SHAPER-I

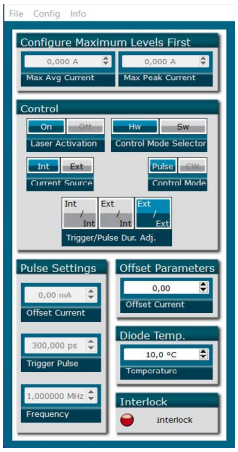
➢ Integrated version for Shaper pulsed driver with «user-design pulse shape»

CCMI

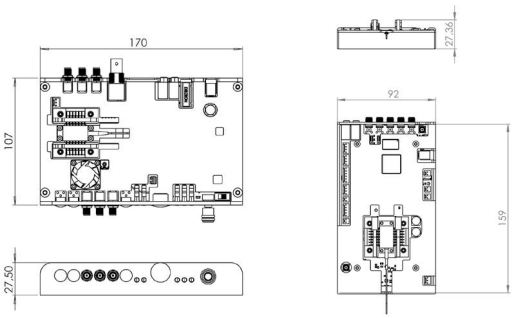
➢ «CCMI» Integrated driver for Multimode diode

Technical Specifications

GUI (examples):



Mechanical (examples):



HPP SHAPER

OPTIONS (see all prices on the website page):

* PM fiber output

* Optical collimator (3mm)

➢ Example of 10 ns and 100 ns pulse shapes obtained with CCS-HPP driver

➢ All AeroDIODE products can be connected together (daisy chain) to a unique GUI interface which consolidates all modules functions

Classification:

Name	660LD:
Diode type	1: 25mW butterfly singlemode 2: 50mW butterfly singlemode 3: 10W multimode
Driver Electronics :	0: No driver - laser diode alone 1: CCS-CW Driver (CW driver) 2: CCS-std Driver (Pulse & CW driver) HPP: Pulsed and CW Driver SHAPER: User design temporal pulse shape MMD: High power CCM(I) (for multimode diode)
Form Factor	0: No driver - laser diode alone 1: Open-frame driver version 2: Turn-Key Integrated driver version

Ordering information:

660LD - [_] - [_] - [_] - Options

Diode type: 1, 2, 3

Driver type: 0, 1, 2, HPP, SHAPER, MMD

Form Factor: 0, 1, 2

AeroDIODE

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