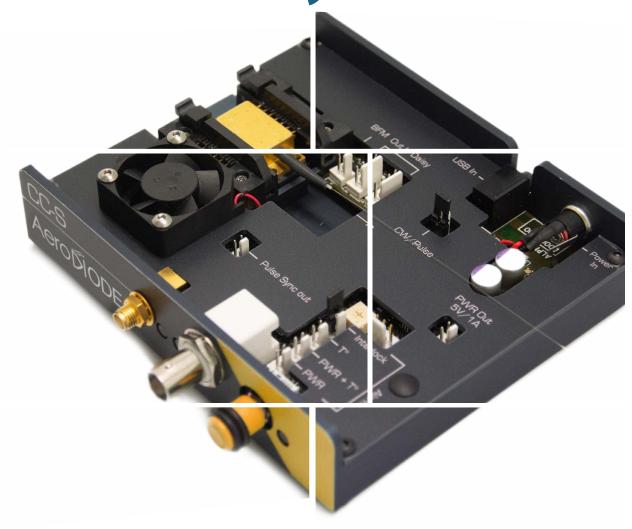
1053 nm Laser diodes & Turn-key solutions





1053 nm laser diode

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

Standard singlemode Fabry-Pérot or DFB laser diodes in the 1053 nm wavelength range are offered as stock items or combined with a CW or pulsed turn-key laser diode driver.

Choose your laser diode:



Diode model	Power (CW)	Power (Pulse)	Technology	Wavelength (nm) (Chip Temprature @ 15°c)	Fiber (or eq.)	Emisison Band- width (typ)	Package (mm)
1	120 mW	600 mW	Butterfly single	$1053 \pm 5 \text{ nm}$ $(1053 \text{ nm} \pm 1 \text{ nm with FBG}$ $\text{option})$	Hi 1060 PM 980 (option)	~1 nm (0.2 nm with FBG OPTION)	14 pin Butterfly- type 1
2	300 mW	1200 mW	mode	$1053 \pm 5 \text{ nm}$ $(1053 \text{ nm} \pm 1 \text{ nm with FBG}$ $\text{option})$			
3	70 mW	100 mW	DFB - Single frequency - Mode hop free	1053 ± 1 nm		100 kHz (single frequency)	

Choose your product form factor: OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS:





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

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



> «CCM» Open-frame driver for Multimode diodes

Choose your Driver performance:

		LASER DRIVER VERSION :			
	1053 nm Laser Diode version	CW Driver (for singlemode diodes : «CCS-CW» is the open driver and CCSI-CW is the integrated version) - An Ultra-low noise driver is also available and relevant for narrow DFB linewidth (diode model 3)- see the product webpage.	Pulse & CW Driver (from 1 ns to CW: « <u>CCS-std</u> » is the open driver and <u>CCSI-std</u> is the integrated version)	User design pulse shape pulse Driver («Shaper» open driver / «Shaper-l» inte- grated version) from 0.5 ns to 8 µs	
	1- Butterfly singlemode	120 mW / No	120 mW / 600 mW	No / 600 mW	
Output Power - CW / Pulse (Typical values)		300 mW / No	300 mW / 900 mW	No / 800 mW	
		DFB - 70 mW / No	70 mW / 100 mW	100 mW	
Laser diode T°		15 - 50 °C			
Pulse duration (Ext. trigger)		CW only	0.5 ns - CW		
Pulse duration (Internal pulse generator)			0.5 ns - 500 ns	0.5 ns - 8 μs	
Typ rise/fall time; Min optical pulse duration (Butterfly package diodes)	Any		3 (ns/A) ; 1.5 ns	< 1ns/A ; 1.5 ns	
Internal rep rate adjustment			1 Hz - 4 MHz (250 MHz optional)	1 Hz - 20 MHz	
Temporal Jitter			< 25 ps	< 2 ns	
Interface/GUI/libraries		USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python			

INTEGRATED VERSIONS:

> Integrated version for CW, std and HP electronics Boards





CCMI

> Integrated version for Shaper electronics Board (single mode





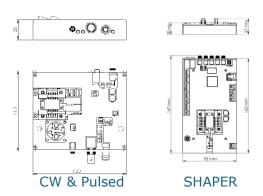
Technical Specifications

GUI (examples)





Mechanical (examples):



OPTIONS (see all prices on the website product 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)





Classification:

Name	1053LD:			
Diode type	1: 120 mW Butterfly singlemode 2: 300 mW Butterfly singlemode 3: 70 mW Butterfly singlemode singlefrequency			
Driver Electro- nics :	O: No driver (laser diode only) 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) LN: Ultra-low noise CW driver			
Form Factor	0: No driver (laser diode only) 1: Open frame driver version 2: Integrated driver version			

Ordering information:

