1064 nm Laser Diode & Turn-key solutions





1064 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 :

							7-23	
Diode type	Technology	Wavelength (nm)	Fiber	Emisison Linewidth (typ - CW)	Power Kink free (CW)	Power Kink free (Pulse)	Package	
1	Standard with Bragg	1064 ±2nm (chip regu- lated at >30°C)		1-3 nm	up to 700 mW	up to 1500 mW	14 pin type 1	
2a	DFB (for pulsing)	1063.5 ±1nm	PM	MHz range	up to	up to 500 mW (700 mW typical max value)	10 pin Type 1	
2b	2b DFB (for CW emission)	1064.0 ±1nm	single- mode	~ 200 kHz	200 MW			
2c				~100 kHz (mode- hop free tuning)	up to 70 mW	up to 100 mW	14 pin type 1	
3	Ultra Broad FBG	1064 ±2nm		> 2nm	up to 650mW	up to 2000 mW	10 pin - Type 1	
4			Multi-	3.5 nm	9 W	9 W	30*17 mm	
5	Multimode	1064 ±7nm	mode 105 μm	4.5 nm	25 W	25 W	66.5*36 mm	
6			core	4.5 NM	100 W	100 W	123*63*22	

3rd

Choose your product form factor: OPEN FRAME or INTEGRATED

OPEN FRAME VERSIONS:



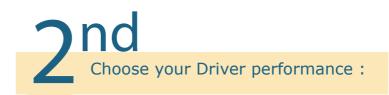
➤ Open driver for CW, std and HP electronics Boards



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



Open driver for Shaper electronics Board



LASER DRIVER VERSION:

	Laser Diode version :	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)
	1 - Bragg	700 mW	400 mW		550 mW		N. /1:
Output Power - <u>CW regime</u> (typ) - (see the product webpage for	2a/2b/2c DFB					No (driver generates only pulses)	No (driver nor compatible for singlemode
detailed peak power performances in pulse mode - scroll down the web page)	3- Broad FBG	650 mW 500 mW				puiscs)	diodes)
	4 & 5 Multi- mode	No (drivers not compatible for multimode dio				es)	9 W / 25 W / 100 W
User design Pulse shape	Any	No	No (On-Off Driver only)			Yes (embedded AWG)	Yes (analog)
Laser diode T° range		15 - 50 ℃					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 - 20MHz	No
Temporal Jitter			< 25 ps		< 8 ps	< 2 ns	
Adj. CW offset in pulse regime			No	Y	⁄es	No	Yes (external mode)
Interface/GUI/libraries		USB - Windows 7/10 - D		DLLs - Hexa/Linux - I	Labview - Python		

CCSI-CW/ std/HP/HPP

INTEGRATED VERSIONS:



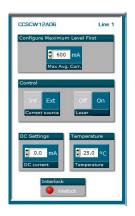
> Integrated version for CW, std and HP electronics board

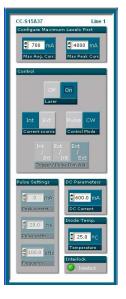


➤ Integrated version for Shaper electronics board

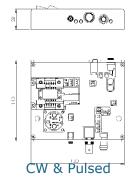


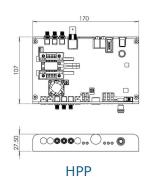
GUI (examples)





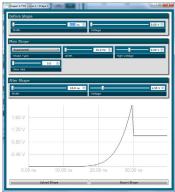
Mechanical (examples):

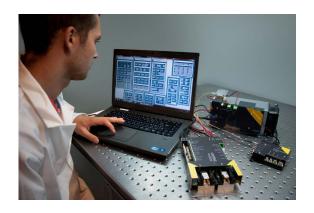






Shaper





Classification:

Name	1064LD:					
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 5 : Multimode 25 W - 105 μm core 6 : Multimode 100 W - 105 μm core					
Driver elec- tronics :	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					

Ordering information:

