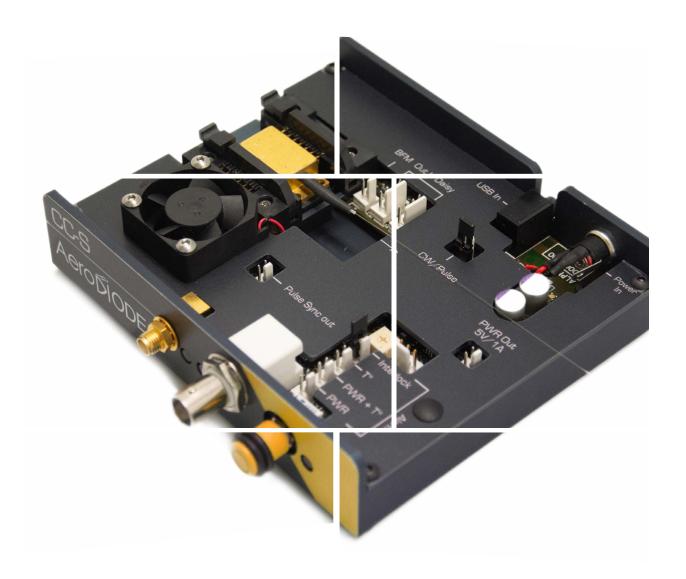
940 nm Laser diodes & Turn-key solutions





940 nm laser

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

Standard singlemode or multimode laser diodes are offered

Standard singlemode or multimode laser diodes are offere as stock items or combined with a CW or pulsed turn-key laser diode driver.

1 St Choose your laser diode :

Diode model	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber (or eq.)	Emisison Band- width (typ)	Package (mm)
1a	100 mW	170 mW	Butterfly single mode	940 ± 5nm	Hi 1060 PM 980	~1 nm (0.2 nm with FBG OPTION)	14 pin Butterfly- type 1
1b	300 mW	450 mW		940 ± 3nm			
2	10 W	10 W	Multimode single emitter	940 ± 5 nm	Multimode 106 µm NA=0.22	~6 nm	31*17*6.1
3	30 W	30 W	Multimode multi emitter				25*43*11
4	70 W	70 W					48*80*16
5	150 W	150 W					80*80*25
6	200 W	200 W			200 µm NA=0.22		80*80*25

Choose your product form factor : OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS:





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

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



«CCM» Open-frame driver for Multimode diodes (10-200W)



LASER DRIVER VERSION:

	940 nm Laser Diode version	CW Driver (for singlemode diodes : « <u>CCS-CW</u> » is the open driver and <u>CCSI-CW</u> is the integrated version)	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 Driver (« <u>Shaper</u> » open driver / « <u>Shaper-l</u> » inte- grated version) from 0.5 ns to 8 µs	Multimode diode Driver (High power driver for 10 to 150 W diodes : <u>CCM</u> is the open version, <u>CCMI</u> is the integrated version)	
	1- Single mode 100 mW 300 mW	100 mW / No 300 mW / No	100 mW / 170 mW 300 mW / 450 mW	No / 170 mW No / 450 mW	Not compatible	
Output Power - CW / Pulse (Typical values)	2- Multimode : 10 W 30 W 70 W 150 W 200 W		10 W / 10 W 30 W / 30 W 70 W / 70 W 150 W / 150 W Not compatible			
User design Pulse shape	Any	No	No (On-Off only) Yes		No	
Laser diode T°			15 - 40 °C			
Pulse duration (Ext. trigger)		CW only	0.5 ns - CW		10 μs - CW	
Pulse duration (Internal pulse generator)			0.5 ns - 500 ns	0.5 ns - 8 μs	No	
Typ rise/fall time; Min optical pulse duration (Butterfly package diodes)			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				

INTEGRATED VERSIONS:

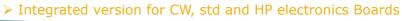




> Integrated version for Shaper electronics Board (single mode diodes)

«CCMI» Integrated driver for Multimode diodes (10-200W)

CCMI

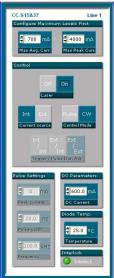




Technical Specifications

GUI (examples)



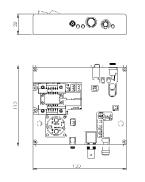


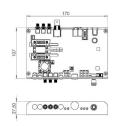
OPTIONS (see all prices on the website page):

- * PM fiber output
- * Narrow spectrum (FBG-based)
- * High speed diode+driver optimization (for 1-5 ns range)
- * 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)



Mechanical (examples):

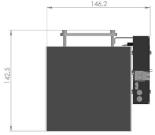




CW & Pulsed

SHAPER





CCM (for Multimode diodes)



Classification:

Name	940LD:				
Diode type	O: Laser diode only 1a: 100 mW Butterfly singlemode 1b: 300 mW Butterfly singlemode 2: 10 W multimode 3: 30 W multimode 4: 70 W multimode 5: 150 W multimode 6: 200 W multimode*				
Driver Electronics	O: No driver (laser diode alone) 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) 4: CCM/CCMI (for multimode high power laser diodes)				
Form Factor	O: No driver (laser diode alone) 1: Open frame driver version 2: Integrated driver version				

^{*}Laser diode only. Not compatible with AeroDIODE air-cooled drivers.

Ordering information:

