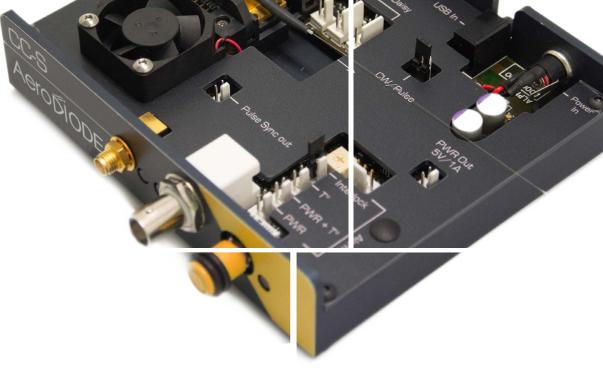
980 nm laser diode & Turn-key solutions





Aero

www.aerodiode.com

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

Standard singlemode or multimode laser diodes are sourced from the most reliable manufacturers and offered as stock items or associated with a CW or pulsed turn-key laser diode driver.

1 st Choose your laser diode :								
Diode type	Power (CW)	Power (Pulse)	Technology	Wavelength (nm)	Fiber	Emisison Band- width (typ)	Package (mm)	
1	300 mW	1000 mW	Butterfly single mode	981±0.5nm	PM 980	~0.1 nm	14 pin Butterfly-	
2	600 mW	1200 mW					type 1	
з	10 W	10 W	Multimode single emitter	980 ± 10 nm	Multimode 106 µm NA=0.22	~5 nm		
4	30 W	50 W	Multimode multi emitter				38.5*45*10	
5	80 W	100 W					48*75*15	
6	150 W	150 W					54*99*15.5	

 \mathbf{Q} rd

Choose your product form factor : OPEN-FRAME or INTEGRATED

OPEN-FRAME VERSIONS:



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

AeroDODE



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



> «CCM» Open-frame driver for Multimode diodes

Choose your Driver performance :						
	808 nm Laser Diode version	CW Driver (for singlemode diodes : « <u>CCS-CW</u> » is the open driver and CCSI-CW is the integrated version)	Pulse & CW Driver (from 1 ns to CW : « <u>CCS</u> » is the open driver and CCSI is the integrated version)	User design pulse shape Driver (« <u>SHAPER</u> » open driver 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 300 mW	300 mW / No	300 mW / 1000 mW	No / 1000 mW		
Output Power - CW / Pulse (Typical values)	2- single mode 600 mW	600 mW / No	600 mW / 1200 mW	No / 1200 mW	Not compatible	
	3-6: Multimode : 10 W/30 W/ 80 W or 150 W	Not compatible			10 W / 10 W 30 W / 30 W 80 W / 80 W 150 W / 150 W	
User design Pulse shape		No	No (On-Off only)	Yes	No	
Laser diode T°			15 - 50 °C		15 - 40 °C	
Pulse duration (Ext trigger)	Any	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 Pulse duration			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)			Optional	No	Yes (external mode)	
Interface/GUI/libraries		USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python				

INTEGRATED VERSIONS:



> Integrated version for CW, std and HP electronics Boards





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Technical Specifications



\$ 600

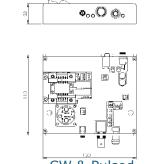
CC-S15A37	Line 1
Configure Maximu	ım Levels First
700 mA Max Avg. Curr.	4000 mA Max Peak Curr
Control	
Off	On
Int Ext Current source	Pulse CW Control Mode
/ Int	t Ext / / Int Ext Ilse Dur, Adj.
Pulse Settings	DC Parameters
Am 0	600.0 mA
Peak current	DC Current
20.0 ns	Diode Temp.
Pulse vidth	25.0 °C
100.0 kHz	Temperature
Frequency	Interlock

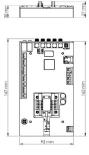
File Config Info	nanov C — 🗆 🗙
Maxima 0,00 A : 0,0 V : Max Current Max Voltage	Laser On Off Laser Activation
Controls Int Ext Current Source Man Auto Voltage Adi.	DCC APC Control Mode Save APC 1.15209e-39 V
Settings 0,00 A : 0,00 V : Diode Curr. Set Voltage	15 µs : 14,50 °C : Laser Slope Laser Temp.
Measures 0,00 A 0,00 V Diode Curr. Diode Volt. 0,00 °C 0,00 A Elec. Temp. TEC Current	0,00 °C 0,000 V Laser Temp. PD_EXT_1 0,00 V 0,000 V TEC Voltage PD_EXT_2
Alarms EXT/CPU Laser T°C. Max PwrSup Laser T°C Csg	●Elec. T°C Max ●PD_EXT_1 ● Diode Voltage

Classification :

Name 980LD : 1: 300 mW Butterfly singlemode 2: 600 mW Butterfly singlemode 3:10 W multimode **Diode type** 4: 30 W multimode 5:80 W multimode 6: 150 W multimode 1: CCS-CW (open driver for CW only) 2: CCS-std (Standard Pulse and CW Driver) **Driver Electronics :** 3 : SHAPER (pulse only with user design pulse shape) 4 : CCM (for multimode diodes) 1: Open Form Factor 2: Integrated

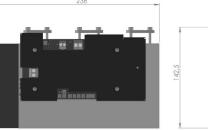
Mechanical (examples) :

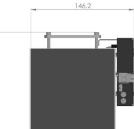




CW & Pulsed



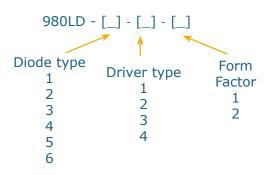




CCM (for Multimode diodes)



Ordering information :



AeroĎiODE

Product Line Manager : sales.aerodiode@aerodiode.com +33 (0)6 27 69 41 52 www.aerodiode.com