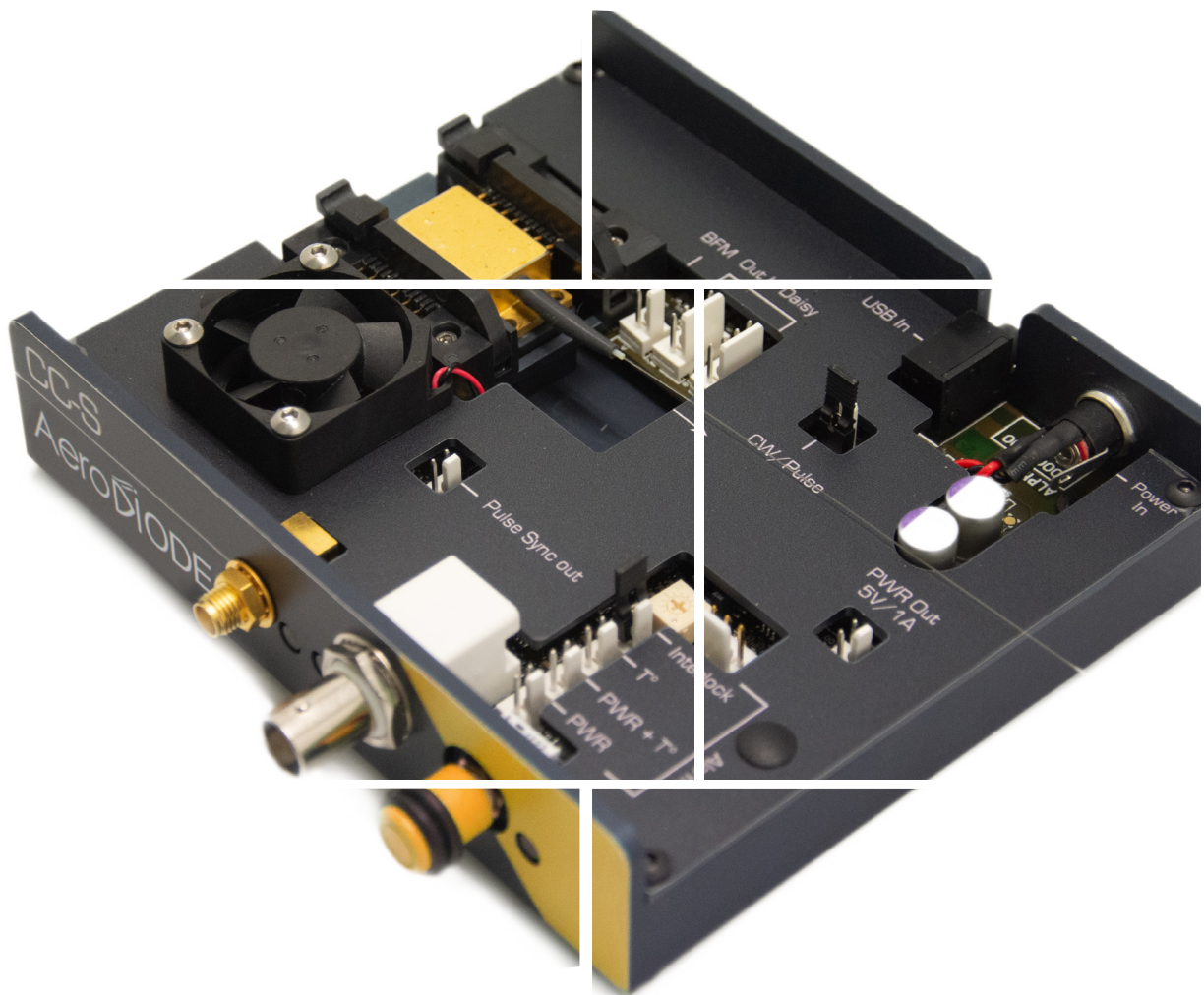


# Superluminescent Diodes & turn-key solutions

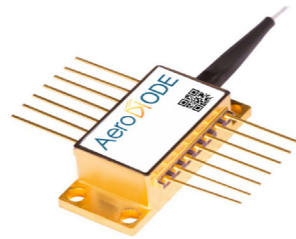


Aero **Di**ODE

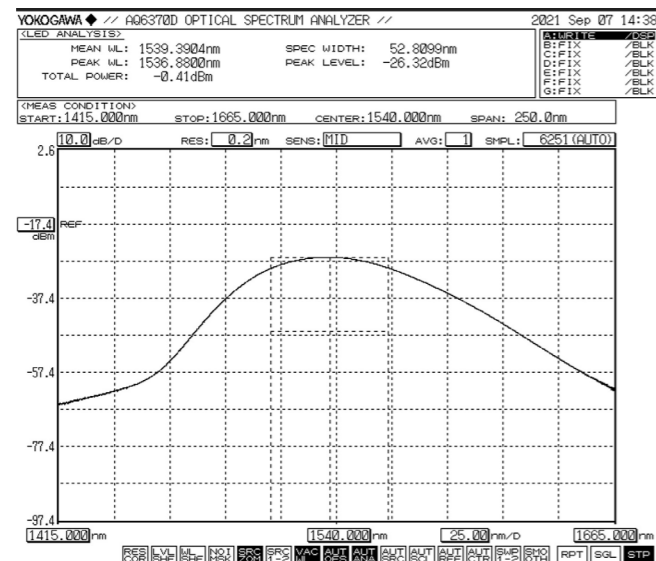
# Choose your own fiber-coupled SLED superluminescent diode + turn-key driver solution

Standard singlemode superluminescent diodes (SLEDs) from 1 to 10 mW are offered as stock items or associated with a CW or nanosecond pulsed turn-key driver.

## 1st Choose your SLED :



Model	Wavelength	Power	Emission Bandwidth	Ripple (Typ)	Spectral shape	Nominal current	Fiber (eq.)
I1310-1	1310 nm	1 mW	45 nm	0.2 dB	Gaussian	150 mA	SMF 28 (standard) PM1550 (option) Multimode (option)
I1310-2		10 mW	45 nm	0.2 dB	Gaussian	500 mA	
I1550-1	1550 nm	1 mW	45 nm	0.2 dB	Gaussian	150 mA	
I1550-2		5 mW	45 nm	0.2 dB	Gaussian	350 mA	



> Example of a typical spectrum of the 1 mW 1550 nm SLED model with 52 nm bandwidth (3dB bandwidth)

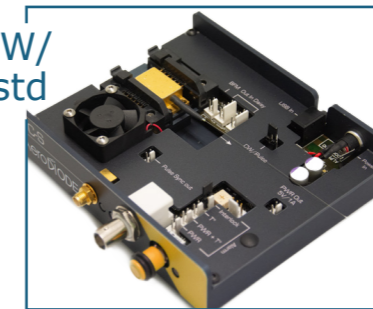
## 2nd Choose your driver performance :

	CW Driver (for singlemode diodes : «CCS-CW» is the open driver and CCSI-CW is the integrated version)	Pulse & CW Driver (from 1 ns to CW : «CCS-std» is the open driver and «CCSI-std» is the integrated version)	User design pulse shape Driver (From 0.5 ns to 8 µs : «SHAPER» is the open driver and Shaper-i is the integrated version)
User design Pulse shape	No	No (On-Off only)	Yes
SLED Temperature	15 - 50 °C		
Pulse duration (Ext trigger)	Any	0.5 ns - CW	0.5 ns - 8 µs
Pulse duration (Internal pulse generator)		0.5 ns - 500 ns	
Typ rise/fall time ; Min pulse duration		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		< 8 ps	< 2 ns
Adj. CW offset (pulse regime)		Optional	No
Interface/GUI/libraries	USB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python		

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

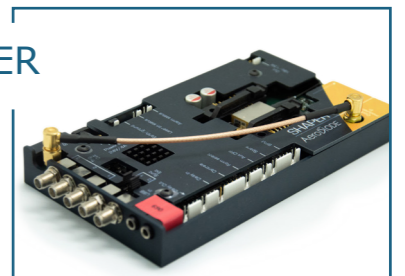
### OPEN-FRAME VERSIONS :

CCS-CW/  
CCS-std



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

SHAPER



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

### INTEGRATED VERSIONS :

CCSI-CW/  
CCSI-std



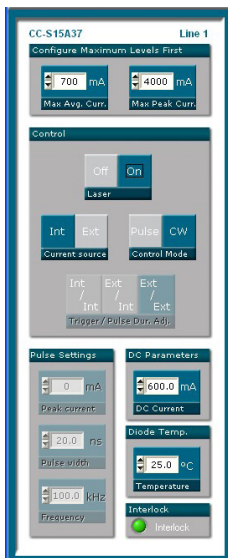
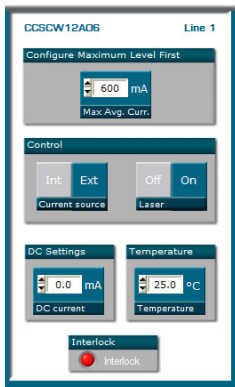
> Integrated version for CW, std and HP electronics boards

SHAPER-I

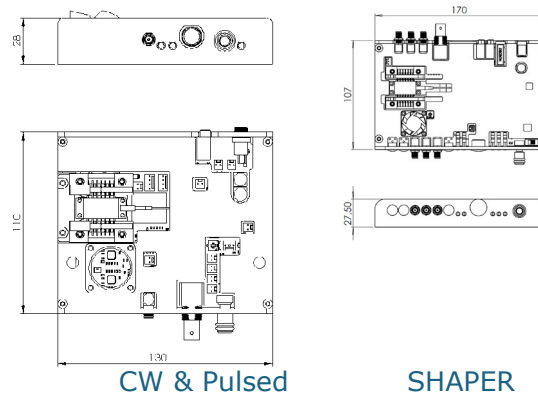


> Integrated version for Shaper electronics board

## GUI (examples)



## Mechanical (examples) :



## Classification :

Name	SLED :
SLED Choice	Choose your model from the table above
Driver Electronics :	0: SLED alone 1: CCS-CW (open driver for CW only) 2: CCS-std (Pulse and CW Driver) 3: SHAPER (pulse only with user design pulse shape)
Form Factor	0: SLED alone 1: Open frame 2: Integrated
SMF or PM	1: SM Fiber 2: PM Fiber 3: Multimode Fiber

## Ordering information :

Reference (see table above) - example :

- 1 : SMF
- 2 : PMF
- 3 : MMF

SLED - [I1550-2] - [ ] - [ ] - [ ]

Driver type

- 0
- 1
- 2
- 3

Form Factor

- 0
- 1
- 2

Example : [I1550-2]-2-1-2 = 1550 nm 5 mW SLED with a PM Panda fiber output, mounted on a «pulsed On/Off & CW» open frame driver.