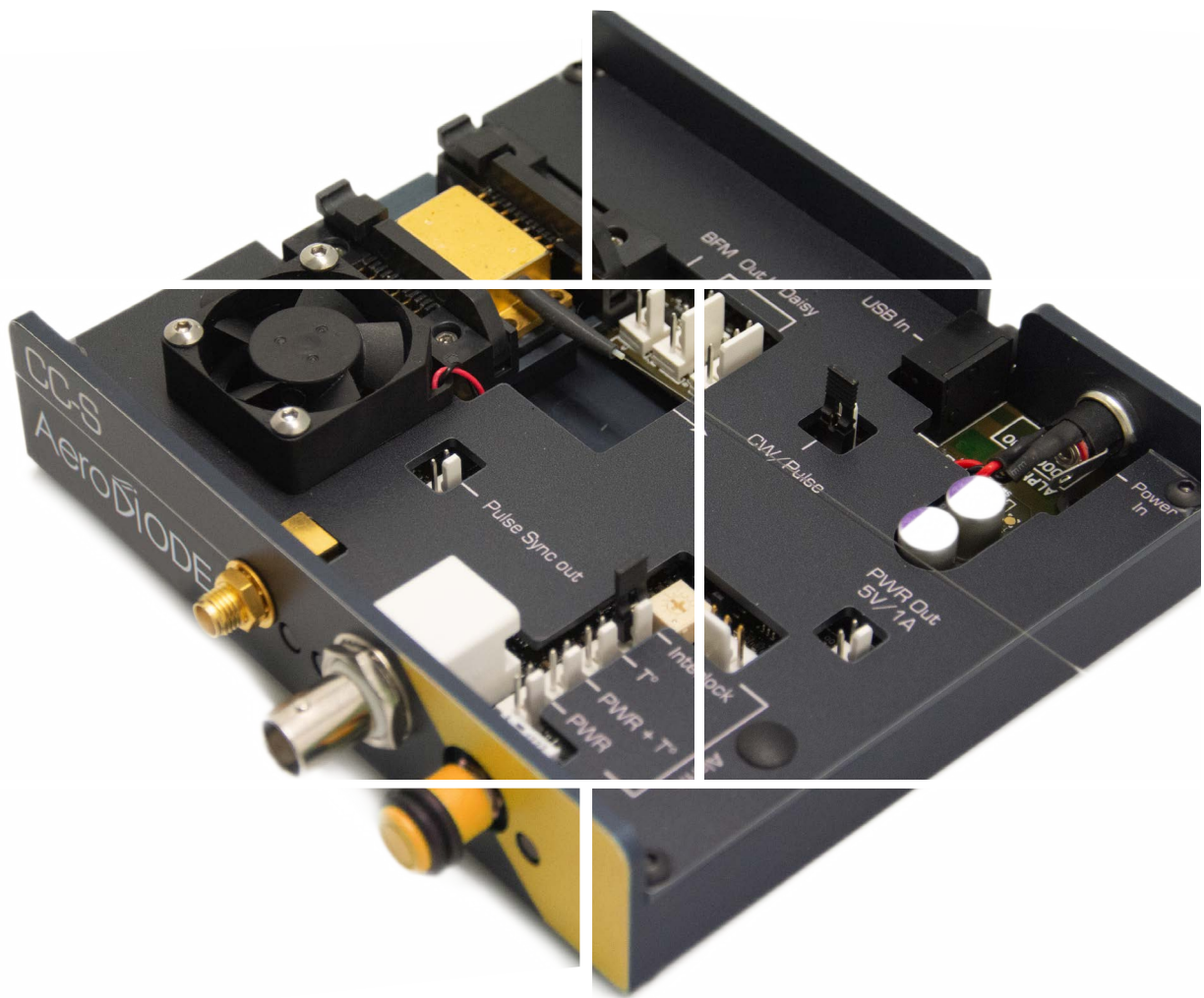


Superluminescent Diodes & turn-key solutions

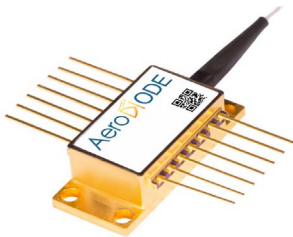


Aero**Di**ODE

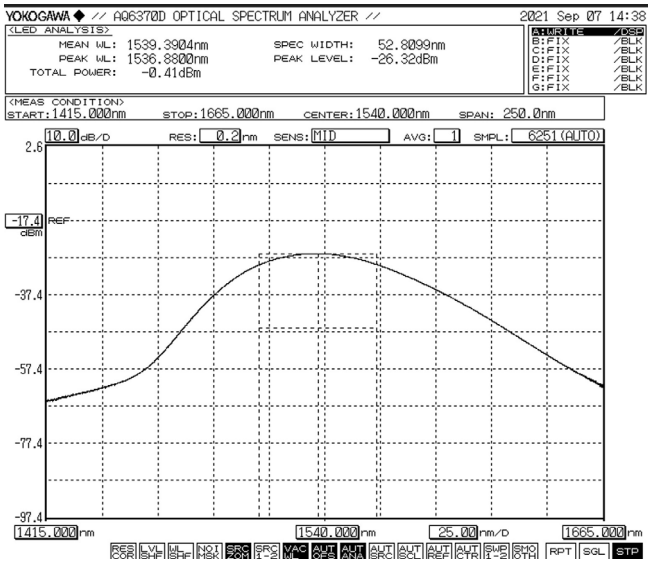
Choose your own fiber-coupled SLED superluminescent diode + turn-key driver solution

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.

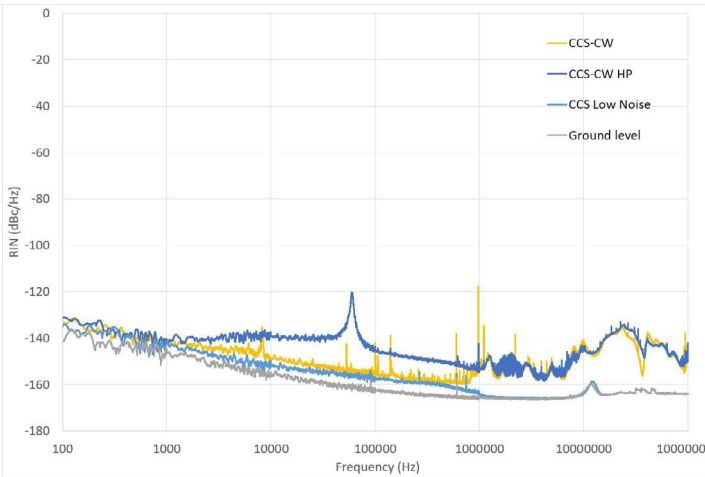
1st Choose your **SLED** :



Model	Wavelength	Power	Emission Bandwidth	Ripple (Typ)	Spectral shape	Nominal current (typical/max)	Fiber (eq.)
1310SLED-1	1310 nm	1 mW	45 nm	0.2 dB	Gaussian	75/120 mA	SMF 28 (standard) PM1550 (option) Multimode (option)
1310SLED-2		10 mW	45 nm	0.2 dB	Gaussian	225/300 mA	
1550SLED-1	1550 nm	1 mW	45 nm	0.2 dB	Gaussian	75/150 mA	
1550SLED-2		10 mW	45 nm	0.2 dB	Gaussian	550/700 mA	



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



➤ Comparative RIN curve performances of the various CW and pulsed&CW drivers

2nd

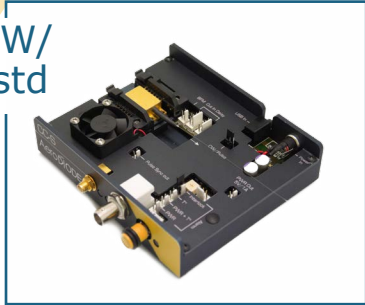
Choose your **driver** performance :

	CW Driver («CCS-CW» is the open driver and CCSI-CW is the integrated version)	CW Driver (Ultra low noise version) («CCS-LN» is the open driver and CCSI-LN 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	No (On-Off only)	Yes
SLED Temperature / stability	15 - 50 °C / <10 mK	0 - 90°C / <1 mK	15 - 50 °C / <10 mK	15 - 50 °C /< 10 mK
Pulse duration (Ext trigger)	CW only	CW only	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 (<10 ps with reference clock synchronization)
Adj. CW offset (pulse regime)			Yes	No
Interface/GUI/libraries	USB - Windows - DLLs - Hexa - Labview - Python - Python/Linux			

3rd

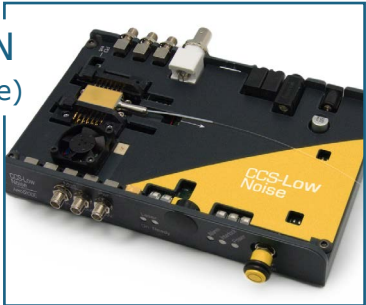
Choose your **product form factor** : OPEN-FRAME or INTEGRATED

CCS-CW/
CCS-std



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

CCS-LN
(Low Noise)



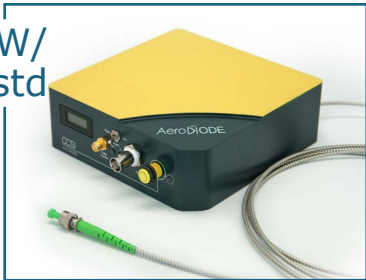
➤ Open-frame driver for CCS Low noise

SHAPER



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

CCSI-CW/
CCSI-std



➤ Integrated version for CW, std and HP electronics boards

CCSI-LN
(Low Noise)



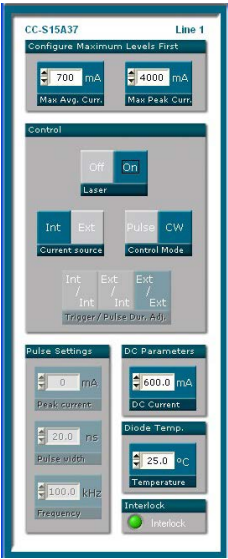
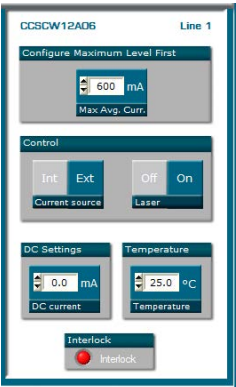
➤ Integrated version for CCSI_Low Noise

SHAPER-I

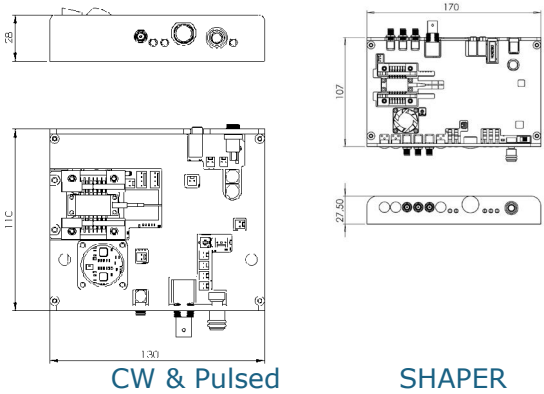


➤ Integrated version for Shaper electronics board

GUI
(examples)



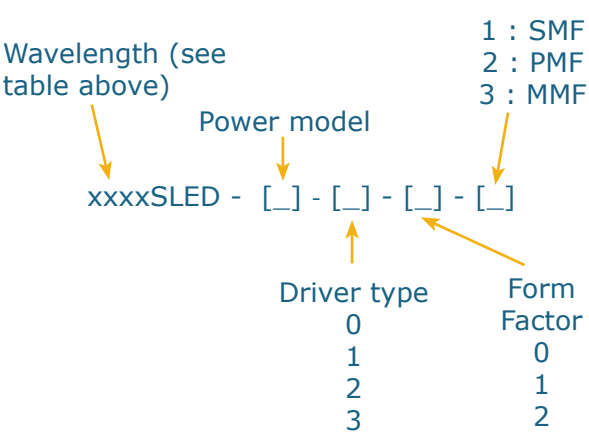
Mechanical (examples) :



Classification :

Name	SLED :
[WL] SLED - [Power model]	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	Nothing or 1: SMF Fiber 2: PMF Fiber 3: Multimode Fiber

Ordering information :



Example : 1550SLED-2-1-2 =
1550 nm 10 mW SLED with a PM Panda
fiber output, mounted on a «pulsed On/
Off & CW» open frame driver.