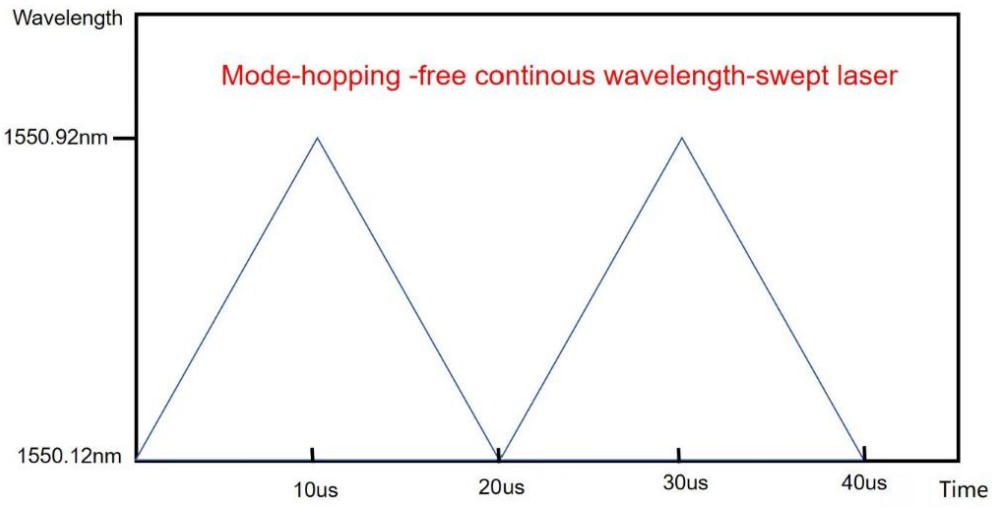
Application Notes: Wavelength-Swept ECL Module

The wavelength sweeping logic of our standard Wavelength-Swept laser module is shown as the figure below, as the sweep rate and range can be set in a built-in function generator to a desired value. This will lead to a mode-hopping-free continuous wavelength-swept mode, which is typically used for FMCW LiDAR, OCT, or OFDR applications.



Our Wavelength-Swept laser module can also support a wavelength-step-tuning mode with tuning logic, example shown in the figure below. The tuning range and tuning speed can be varied per need. To achieve that, the laser module can receive an external modulation function from an external function generator (not provided) via the external modulation signal input port (shown in the picture on page 2). The input signal needs to be in a waveform of +/- 1Vpp voltage.

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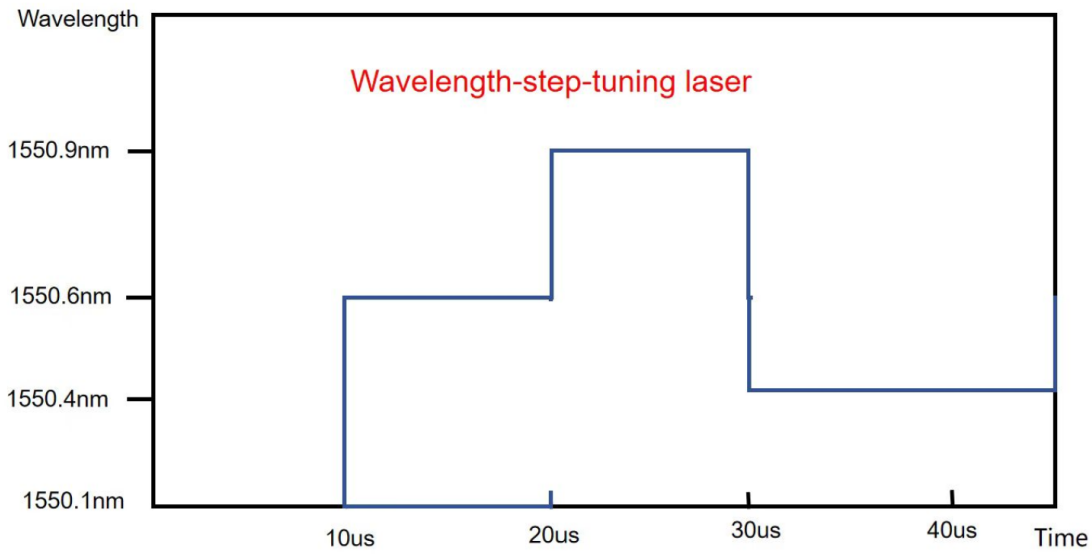

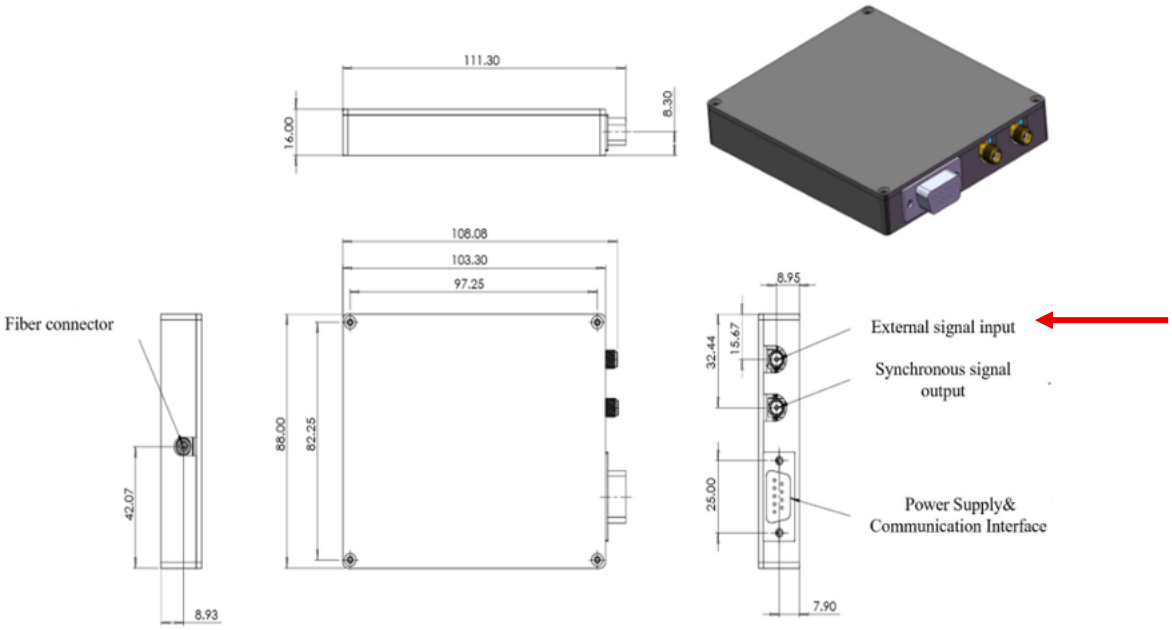

Dimensions	L×W×H=111.3×88×16mm
Fiber Type	PMF
Fiber Connector	FC/APC
Power Supply& Communication Interface	DB9
Synchronous signal output	OUT(SMA)
External signal input (Optional)	IN(SMA)

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Disclaimer

Please note that once the Wavelength-Swept laser module is operated via the external signal input and a 3rd party function generator, the overall performance of the laser module is the responsibility of the end user. SemiNex will not guarantee the performance of the laser module.

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