

## Features

- \* All-fiber technology
- \* 1.5  $\mu\text{m}$  eye-safe operation
- \* Pulse energy up to 8 $\mu\text{J}$
- \* Near-diffraction-limited beam quality
- \* Maintenance free
- \* Optically isolated output ports to minimize system susceptibility due to connector reflections.
- \* RS-232 interface for local supervision.

## Applications

- \* LIDAR
- \* Detection system
- \* 3D scanning
- \* Supercontinuum generation
- \* Telemetry
- \* Fiber optics sensing
- \* Test and measurement

## Description

**GIP Technology** Nanosecond Erbium Fiber Laser Module (LAS-EFL-NS-00-M) is a wavelength of 1550nm, high pulse energy laser sources. Its energy per pulses up to 8 $\mu\text{J}$  is available with excellent beam quality. The pulse FLM can reduce the ASE under low repetition rate operation by modulation pump function.

The pulsed FLM not need water-cooling or replacement parts and

requires only a +24V DC power source to provide amplification for the low power signal. It can be used in the LIDAR, 3D scanning, non-linear optics as well as research and development (R&D) environments.



The compact, robust, and reliable package design is flexible and easy to be integrated with any complicated system. The wide operating temperature can work in the harsh environment. Via the friendly user-interface, the customer can quickly access and set all FLM data.



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## Specifications

Optical Information			Unit	Description
Mode of operation				Pulsed
Operating wavelength	Normal	nm		1550
Output power* <sup>1</sup>	Max.	mW		400
Pulse repetition rate		kHz		50-100
Pulse energy* <sup>1</sup>	Max.	μJ		8
Peak power* <sup>1</sup>	Max.	kW		1
Pulse duration* <sup>2</sup>		ns		4-10
Beam quality	Max.	M2		1.1
Polarization				Random or Linear
Power tunability			%	10 ~ 100
Seed tap				1M, FC/APC
Output termination				0.35M, FC/APC
Electrical Information				
Power supply voltage	Typ.	Volt		+24V
Control mode				ACC
External trigger				TTL3.3V
Sync. signal output				TTL signal
Connector				Male header with 20 pins
Environmental Information				
Ambient temperature		°C		10 ~ 35
Storage temperature		°C		-20 ~ 80
Relative humidity (non-condense)		%		5 ~ 85
Mechanical Information				
Dimension (W x L x H)		mm		200 x 150 x 40

\*1. Saturated power, pulse energy, and pulse peak power are composed of optical signal and ASE power.

\*2. Calculated by full width at half maximum (FWHM).