

## 1.5 $\mu\text{m}$ Fiber Laser

### Features

- All-fiber technology.
- Up to 15W optical output power.
- 1550nm wavelength.
- CW or pulsed mode
- High output power stability.
- Maintenance free.
- Compact package.
- No water cooling.
- RS232 interface for local supervision.
- Collimator and Isolator are optional.

### Applications

- Laser marking.
- LIDAR.
- Instrumentation.
- Sensing.

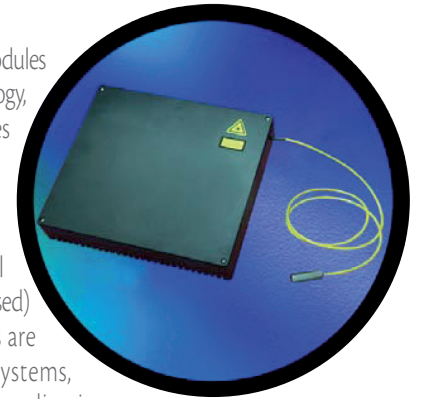
### Description

**GIP Technology** FLM or FLU series are high-power fiber laser modules operating around 1.5 $\mu\text{m}$  wavelength. Based on proprietary all-fiber technology, they have been designed as a robust, compact, and reliable laser sources with actively air-cooled and maintenance free operation.



The flexible package (module or unit) and operational mode (CW or pulsed) of laser modules are useful in a variety of marking systems, military, research, and medical applications.

With built-in controlled electronics, these laser modules can be effectively controlled and monitored by RS232 interface.



## 1.5 $\mu\text{m}$ Fiber Laser CW Mode

### Specifications

Optical Information		Unit	Description	
			FLM	FLU
Mode of Operation			CW	
Center wavelength		nm	1030 ~ 1565	
Emission bandwidth (FWHM)	Max.	nm	5	
Total Output Power	Max.	W	5	
Output Power Tunability		%	10 ~ 100	
Output Power Stability *	Max.	dB	±0.1	
Beam Quality ( $M^2$ )	Max.		1.2	
State of Polarization			Random	
Output			Connector or Collimator	
Electrical Information				
Power supply		V	+5, +12, +24 VDC	110 ~ 220 VAC
Control interface			RS-232	
Environmental Information				
Operating temperature		°C	0 ~ 50 (case)	0 ~ 35
Storage temperature		°C	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Physical dimension			19" or customized	

\* RMS, over 1h@25°C

# 1.5 $\mu\text{m}$ Fiber Laser Pulsed Mode

## Fiber Laser

### Specifications

Optical Information		Unit	Description	
			FLM	FLU
Mode of Operation			Pulsed	
Center wavelength		nm	1550 $\pm$ 5	
Emission bandwidth (FWHM)	Max.	nm	5	
Average Output Power	Max.	W	5	
Repetition Rate		kHz	10 ~ 100	
Pulse Width		ns	10 ~ 100	
Output Power Tunability		%	10 ~ 100	
Output Power Stability *	Max.	dB	$\pm$ 0.1	
Beam Quality ( $M^2$ )	Max.		1.5	
State of Polarization			Random	
Output			Connector or Collimator	
Electrical Information				
Power supply		V	+5, +12, +24 VDC	110 ~ 220 VAC
Control interface			RS-232	
Environmental Information				
Operating temperature		$^{\circ}\text{C}$	0 ~ 50 (case)	0 ~ 35
Storage temperature		$^{\circ}\text{C}$	-20 ~ 80	
Relative humidity (non-condense)		%	5 ~ 85	
Outline Information				
Physical dimension			19" or customized	

\* RMS, over 1h@25 $^{\circ}\text{C}$