# Laser Diode Module with Multiple Fiber Outputs

1400 nm / 1420 nm / 1440 nm / 1450 nm / 1470 nm / 1480 nm

AKELA Part Number: ALC-14xx-00800-FM100.22x4-LDTC (rev. 10/12)

This multi-output laser module uses a single driver to operate all outputs simultaneously. Available with 100μm or 200μm fiber outputs, it is suitable for a broad range of applications including photodynamic therapy, biomedical research, medicine, illumination, materials processing, etc. The module output can be configured using a USB port or by external voltages (0-5V). Capable of operating in continuous wave and pulsed regimes, this module is ideally suited for both OEM use and within various lab settings. Features include automated thermal management and several emergency shut-down options. The number of outputs in a module may be customized to meet the customer's design criteria. For information on other wavelengths, please refer to the corresponding data sheets or contact AKELA directly.

The module
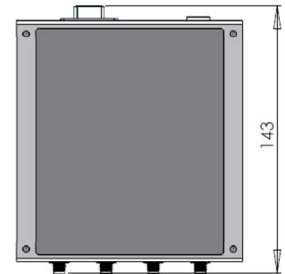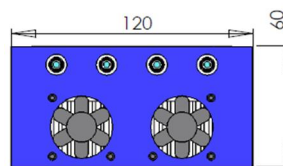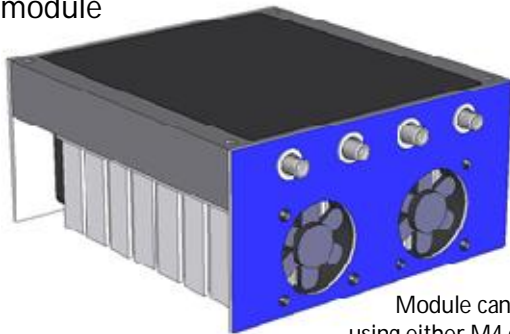
Module can be mounted using either M4 or #8 screws.

Typical performance characteristics per channel

Parameter	Value	Unit
Operating output power	.8	W
Threshold input power	~4	W
Operating voltage	12	V
Wall plug efficiency at operating power	>7	%
Wavelength tolerance	±5, ±10, ±20	nm
Spectrum width (FWHM)	<14	nm
Fiber core diameter/ NA	100 / 0.22	μm / ##
	200 / 0.22	μm / ##
Fiber connector	SMA	
Mounting footprint	143×120	mm
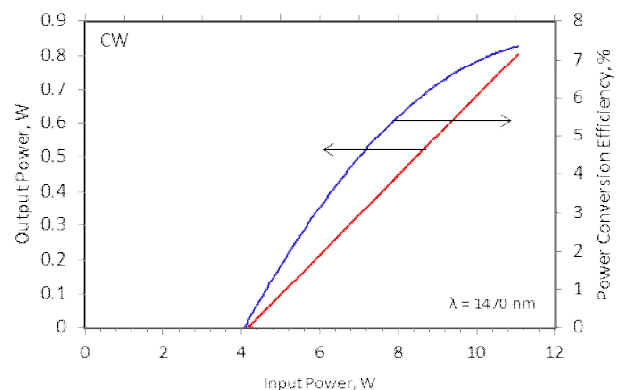
Note: The consumed power includes the power of the cooling system. The measurement was performed at typical ambient temperature (20°C). The consumed power varies depending on ambient temperature.

Specifications are subject to change without notice. In addition, AKELA can customize the laser design to meet different operating parameters. Please contact us for more details.

These components do not comply with the Federal Regulations (21 CFR Subchapter 1) as administered by the Center for Devices and Radiological health. Purchaser acknowledges that his/her products must comply with these regulations before they can be sold to a customer.