

# QUINTA - Multi-Wavelength Fiber-Coupled Module

## Features

- High-power multi-wavelength output from the same SMA connector
- Individually-addressable wavelength channels
- Detachable fiber, various core diameter options
- Conduction cooled package, designed for use with external 40x40 mm<sup>2</sup> footprint TEC
- Built-in thermistor
- Red or green pointing beam
- Power monitor photodiode
- Optical fiber sensor



## Benefits

AKELA's multiwavelength modules provide a new frontier for laser system designs – increasing functionality while decreasing assembly cost, opening new applications, and shortening time to market. Compact package (50x65x16 mm<sup>3</sup>) encompasses up to four different-wavelength high-power channels. The module has optional visible pointing beam and optical fiber sensor, thus meeting the requirements of demanding medical and industrial applications.

## Power levels per channel for multi-wavelength modules

$\lambda$ , nm	Number of wavelength channels in the module			
	1	2	3	4
6xx	0.5-1.5 W	0.2-1.2 W	0.2-0.8 W	0.2-0.4 W
8xx	25 W	6.5-20 W	6.5-13 W	6.5 W
9xx – 10xx	30 W	8.5-25 W	8.5-16 W	8.5 W
11xx – 12xx	25 W	6.5-20 W	6.5-13 W	6.5 W
13xx – 15xx	15 W	4-12 W	4-8 W	4 W
16xx – 17xx	5-8 W	1-6 W	1-3 W	1-2 W
18xx – 19xx	3-5 W	1-4 W	1-2 W	1 W

## Examples of wavelength combinations

### One wavelength

450nm / 10W

808nm / 40W

980nm / 50W

1060 nm / 50 W

1470 nm / 20 W

1720 nm / 5 W

### Two wavelengths

810 nm / 16 W + 940 nm / 20 W

1060 nm / 10 W + 1470 nm / 12 W

1470 nm / 4 W + 1720 nm / 4 W

### Three wavelengths

405 nm / 0.6 W + 520 nm / 0.8 W + 638 nm / 1.0 W

660 nm / 0.4 W + 810 nm / 8 W + 1060 nm / 10 W

810 nm / 8 W + 980 nm / 10 W + 1370 nm / 9 W

1060 nm / 10 W + 1210 nm / 8 W + 1470 nm / 8 W

### Four wavelengths

405 nm / 0.2 W + 488 nm / 0.6 W + 520 nm / 0.8 W + 638 nm / 1.0 W

635 nm / 0.2 W + 810 nm / 8 W + 915 nm / 10 W + 1060 nm / 10 W

690 nm / 0.25 W + 810 nm / 8 W + 1210 nm / 8 W + 1470 nm / 4 W

940 nm / 10 W + 1060 nm / 8 W + 1210 nm / 8 W + 1470 nm / 4 W

Other wavelengths / wavelength combinations available upon request.

Please contact us.