

# Arche

## World's most cost-effective femtosecond OEM fiber laser component

A suite of ultra-fast OEM fiber laser component with  $65 \pm 2$  MHz repetition rate, centered at  $1550 \pm 5$  nm, delivering  $\leq 250$  fs. Arche becomes a workhorse tool for many research and industrial applications requiring reliability and affordability.



### Central Wavelength

1550 nm  $\pm$  5 nm

### Repetition Rate

65 MHz  $\pm$  2 MHz

### Average Power

~ 25 mW

### Pulse Width

$\leq 250$  fs

## / Applications



Amplifier Seeding

Optical Characterization

Ultrafast Spectroscopy

Testing at telecom wavelengths

# Arche

## / Technical Specifications

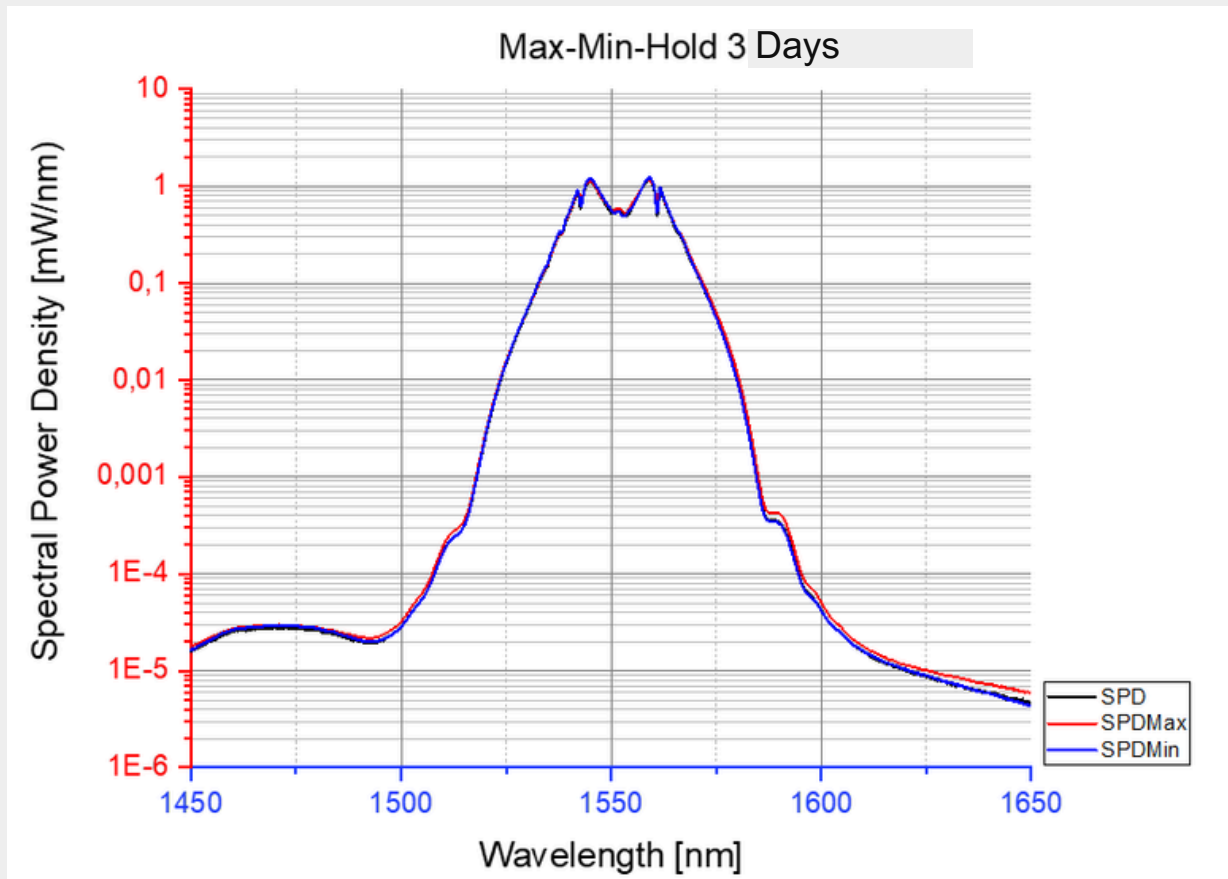
<b>Wavelength:</b>	<b>Repetition Rate</b>	<b>Pulse Width:</b>	<b>Average Power:</b>
1550 ± 5 nm	65 ± 2 MHz	≤ 250 fs	~ 25 mW

Central Wavelength:	1550 ± 5 nm
Spectral Bandwidth:	> 15 nm
Repetition Rate:	65 ± 2 MHz
Average Power:	~ 25 mW
Pulse Width:	≤ 250 fs
Polarization:	Linearly Polarized
Output Port:	Single mode fibre. 0.30 m length (customizable)
Optical Output:	FC/PC Connector
Synchronization:	Optical Signal
Pulse Energy:	300 - 600 pJ
Peak Power:	1 - 3 kW
Spatial Mode Quality (M <sup>2</sup> ):	< 1.2
Cooling:	Air cooling
Power Requirements:	110 V - 220 V / 50 Hz-60 Hz
Operating Temperature:	20 - 30 °C
Storage Temperature:	0 - 60 °C
Dimensions:	200 x 120 x 53 mm (WxDxH)
Control:	Only using software via USB

OTHER DETAILED SPECS UNDER REQUEST

# Arche

## / Optical Spectrum



# Arche

## / Additional information



The ARCHE laser module is supplied strictly as an OEM laser component intended for integration into a host system or setup. It is not a finished laser product and therefore does not include the safety features required for a Class 3B laser product.

Warranty:

12 months warranty or > 10,000h of continuous operation.

Extended warranty on request.

## / FYLA contact

Sales contact

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\*The price may be different in the APAC area.