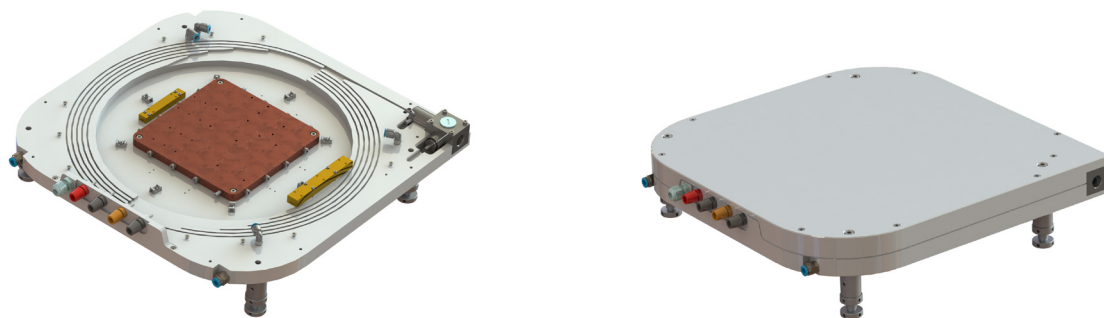


TGModule C

This gain module includes all the needed optical components packaged inside a water cooled aluminium housing. Fiber coupled combiner and multiplexer in both T-DCF ends allow easy splicing of pump diodes to the gain unit. The gain module ships fully tested, without integrated pump diodes.



Specifications

Wavelength	nm	1030-1050
Pump wavelength	nm	976 +/- 2
Length	m	3-4
Core NA		0.11
Cladding NA		0.4
Input signal fiber		HI1060 or similar. Upon request - custom fiber with core diameter up to 15 μm and NA < 0.11
Power of seed source	mW	> 0.5
Pump fiber		105/125 μm , NA 0.22 or 0.15
Pump power, (narrow end, pump combiner)	W	2 x 25
Pump power (wide end, free space)	W	200
Polarization		Random
M^2		< 1.2

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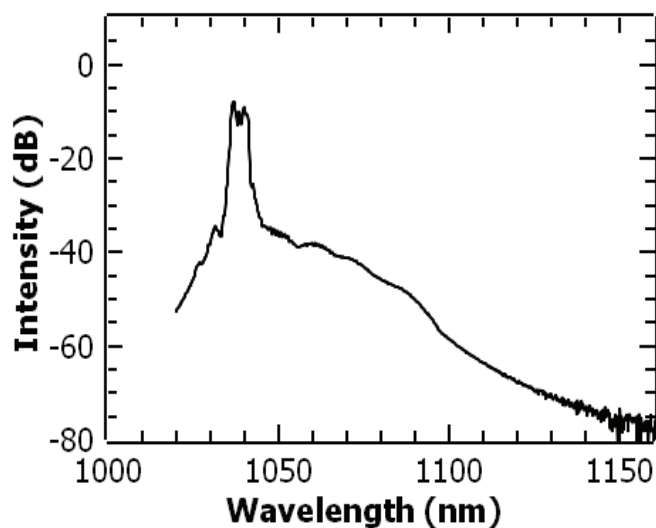
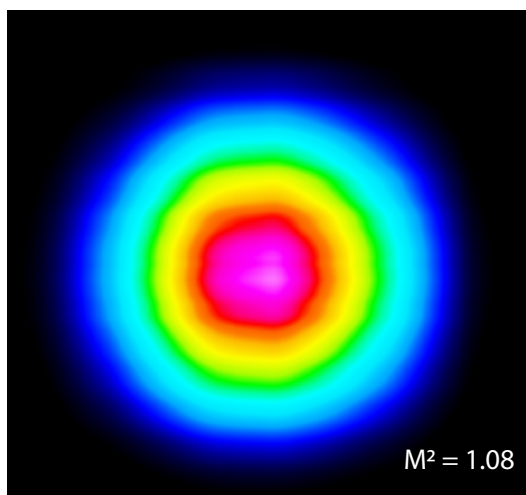
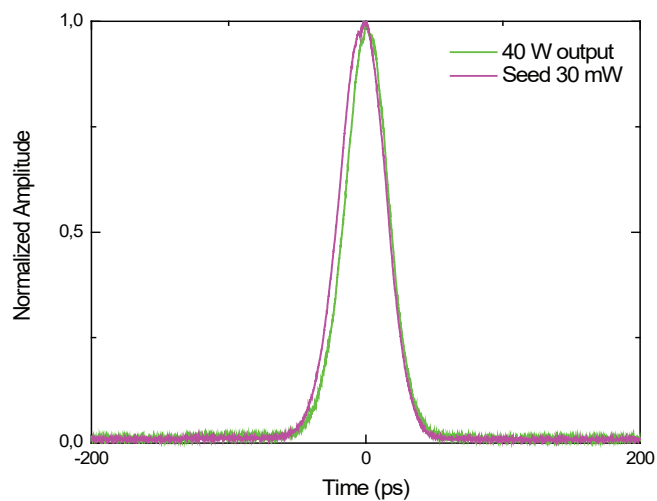
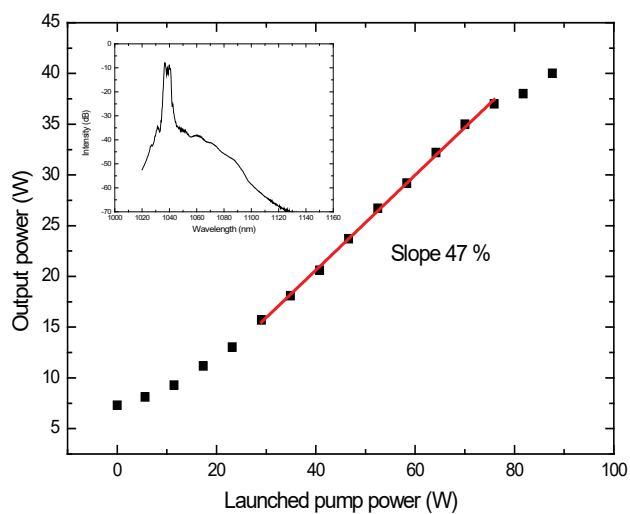
Example amplification

Test condition: 21 MHz, 25 ps, 30 mW 1035 nm pulsed input signal

Output average power: 40 W

Beam quality M^2 : 1.08

Amplification: 31 dB



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