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**AMPLICONYX**  
NEW FRONTIER IN ULTRAFAST LASER PERFORMANCE.

# GAIN MODULE AMPX - TGMC

APPLICATIONS

SCIENCE

INDUSTRY

AEROSPACE



## KEY FEATURES

- High-power gain module based on patented tapered double clad fiber (T-DCF)
- Single mode output,  $M^2 < 1.3$
- Large mode area, low level of nonlinear effects
- Rigid metal housing
- Ready to splice to pump and seed source
- Easy thermal management
- Thermistors for temperature monitoring

## SPECIFICATIONS

PARAMETER	MIN	TYP	MAX	UNITS
<b>OUTPUT</b>				
Output power <sup>1)</sup>		100		W
Mode field diameter		26-35		µm
M <sup>2</sup>	1.0	1.1	1.3	
<b>INPUT</b>				
Wavelength	1030	1040	1065	nm
Input signal power	5	30	-	mW
Pump power			200	W
Pump wavelength		976		nm
<b>FIBERS</b>				
Input signal fiber	PM980 XP others upon request			
Pump fiber	105/125 0,22 200W			
<b>MECHANICAL</b>				
Dimensions	342 mm x 330 mm x 38 mm			
Water flow	5		10	l/min

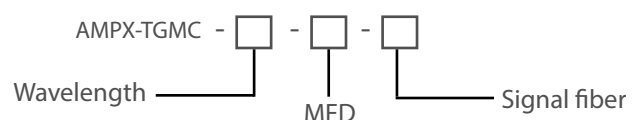
<sup>1)</sup> Output power depends on the applied pump power and seed input. The pump assembly is capable of handling up to 200 W of pump power and 100 W of output power.

## DESCRIPTION

AMPX-TGMC is an amplifying module containing all the needed optical components packaged inside an aluminum housing. The module includes Ampliconyx patent protected, polarization maintaining ytterbium doped tapered double clad fiber (T-DCF) (US 8,433,168 B2, Japan 5390524, People's Republic of China ZL 200880119087.7, EPO 08805462.2 pending). The unit is ready-to-splice to pump diodes and seed source.

This module is ideal for customers who want to have fully assembled, ready-to-splice gain unit, but prefer to use their own pump diodes or integrate the module inside a larger system. The module is fully tested and shipped with a complete test report.

## ORDERING INFORMATION



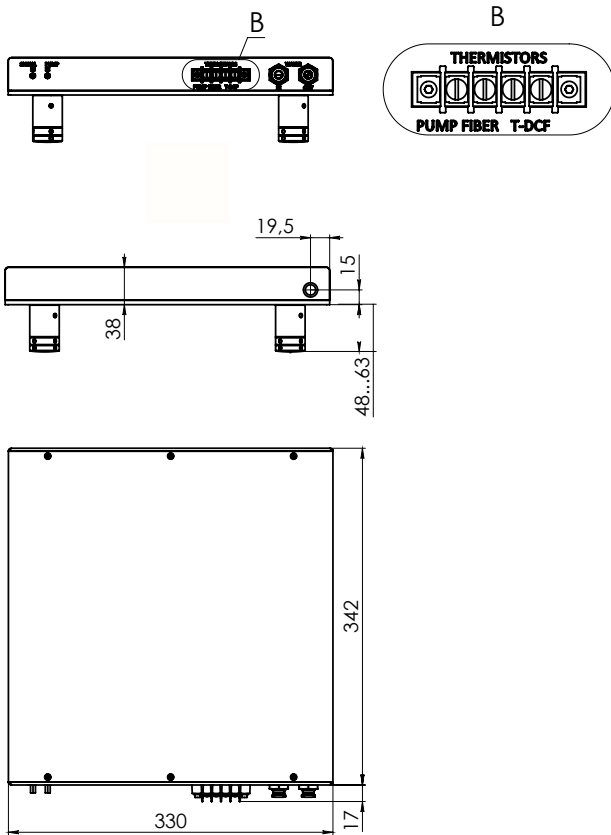
Example: AMPX-TGMC-1040-35-PM980XP

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# PERFORMANCE, DIMENSIONS

## DIMENSIONS



## EXAMPLE AMPLIFICATION

90 mW, 20 MHz, 50 ps input signal

