

Features

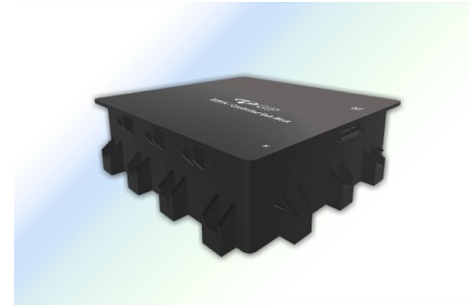
- * High saturated output power up to 36dBm
- * Optically isolated input and output ports to minimize system susceptibility due to connector reflections
- * Input and output signal monitoring
- * High-reliability and high-availability

Applications

- * Optical ground stations
- * Optical inter-satellite links
- * Free space optics
- * Free space communications

Description

GIP Technology The Space-Qualified Erbium-Doped Fiber Controlled Gain Block Module (AER-SCEFA-00-00-M) is designed for high-power single-channel applications. This series adopts a special, unique, and flexible structure that maximizes signal gain and saturated output power while minimizing noise figure. By optimizing these important amplifier



parameters, the module can be easily deployed into any high-quality telecommunication platform.

The controlling electronics include the central microcontroller, optical power detection and reporting of EDFA input and output, and the pump laser current driving electronics.

The space-qualified EDFA fiber optics use radiation-hardened erbium-doped fibers or erbium/ytterbium co-doped fibers as the gain medium. In addition, all other passive fiber optic components are either high-reliability category items or the best-in-class high-power fiber optics. The device is designed with a very compact size, offering user-friendly status monitoring, and can be easily accessed through RS-232/RS422 or UART electrical interfaces.



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Specifications

Optical Information		Unit	Description
Control mode			ACC/APC
Polarization			Linear / Random
Operating wavelength		nm	1535 ~ 1562
Input power range		dBm	-5 ~ +10
Saturation output power*1		dBm	30 ~ 36
Connector			FC/APC
Electrical Information			
Operating voltage		Vdc	+5 / +12/ +28
Control interface			RS232 / RS422
Environmental Information			
Operating case temperature		°C	-20 ~ +55
Storage temperature		°C	-20 ~ +80
Relative humidity (non-condense)		%	5 ~ 85
Radiation			Contact us for details

*1. Saturated power is composed of optical signal and ASE power.