



EIT Frequency Stabilization Module

Based on EIT spectrum and modulation and demodulation technology, an EIT frequency stabilization module with good long-term stability can be realized.

Features

- Portable
- All-fiber frequency-stabilized optical path
- High frequency stability

applications

- Quantum computing
- Quantum precision measurement
- Optical precision measurement



Specification		
Partnumber	Preci-EIT-Rb	Preci-EIT-Cs
Spectral line generation method	Modulation transfer spectroscopy	
Modulation frequency	10kHz-100kHz Digitally adjustable	
Phase	0-360° Digitally adjustable	
Error signal amplitude	> 200mVpp	
Optical path packaging	All-fiber structure	
Spectrum generation	Built-in Rb bulb	Built-in Cs bulb
Input 1	480nm single-mode polarization-maintaining fiber input, FC/APC connector Power: >120mW	509nm single-mode polarization-maintaining fiber input, FC/APC connector Power: >120mW
Input 2	780nm single-mode polarization-maintaining fiber input, FC/APC connector Power: >1mW	852nm single-mode polarization-maintaining fiber input, FC/APC connector Power: >1mW
Configuration	Contains PD, modulation and demodulation circuit	
Locking accuracy	<±800kHz@24h	

