

Fast FBG Interrogator Module

Specification

The Fast FBG Interrogator Module is designed with DBR tunable laser which is fast tuned and stable. It is designed and manufactured with our state of art calibration software, hardware and firmware technologies. It is widely used in FBG system with high accuracy and high stability, offering up to 8 kHz speed and an 40 nm wavelength range for large sensor network interrogation.

Key Features:

- High Repeatability and High Accuracy
- High Speed, Up to 8 kHz
- All Semiconductor, High Reliability
- All channel Synchronous Scanning
- Ethernet Interface, Convenient to integrate



Technical Specification:

Swept Speed (All channels)	8k Hz , 1k Hz , 100 Hz
Wavelength Range	8k Hz 10nm, 1k/100 Hz 40 nm (1528 ~ 1568 nm)
Optical channel Number	8k/1k Hz up to 8, 100 Hz up to 16
Maximum Number of Sensors/Channel	8k up to 5, 1k/100 Hz up to 16
Repeatability	2 pm
Accuracy	Typ +/-2 pm
Dynamic Range	35 dB
Gain Control	Automatic per Channel
Working Temperature Range	-15 ~ 55 °C
Communication Interface	RJ-45 Ethernet
Optical Adapter	FC/UPC
Input Voltage	5 V DC/6 A
Power Consumption	12 W (In door) /20 W (Extreme Temperature)
Dimension	225 X 193 X 83.5 mm