



FBG Interrogator(40nm)-Product Datasheet V1.1

Key Features

- High-speed Scan and Demodulation
- All Solid State
- Accurate and High Repeatability
- Highly Environmental Robustness
- User software provided for host PC
- Multiple communication protocols



Description

This FBG Interrogator is designed and manufactured with an in-house tunable laser from OptoChip Ltd. It supports 4~64 channels of fiber sensing data synchronous modulation, with a maximum demodulation frequency of 1Hz. The wavelength tuning range is between 20~40nm within the C-band, and the minimum sweep step is 10pm (step customization available). It has high wavelength accuracy, and a fast demodulation speed. In addition, it provides a user-friendly host computer software that can support fast evaluation, as well as rapid system setting-up and testing. It also features several communication protocols to facilitate customers' subsequent development and system integration. This product is the ideal choice for applications in the field of fiber optic sensing.



Applications

- Optical Research, Experiments & Tests
- Demodulation for Fiber-optic Sensors
(e.g. Temperature, Vibration and Stress sensors)
- Other Tests & Measurements

Specifications

Wavelength Tuning Range	20~40 nm (C-band)
Demodulation Frequency	1Hz (Customized)
Number of Channels	4~64 (Customized)
Default Sweep Step	10pm
Repeatability	Typ. < 2pm
Wavelength Resolution	0.1pm
Communication Interface	Ethernet
Gain Control	8 levels, per channel or per sensor, automatic or user controlled
Optical Adaptor	FC/APC (Other types available)
Operating Temperature	25℃ (-30℃~+60℃ Customized)
Dimensions	220mm*155mm*48mm(16channels)

Interfaces

DC: 12~36 V/5A

Optical connector: FC/APC

Communication: Ethernet /RS232(restricted)

POW power indicator, RUN operating status indicator: (Slow flashing for standby state / Fast flashing for demodulation state)

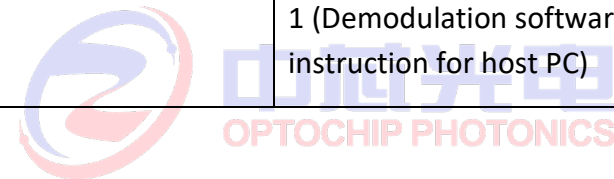


Communication Information

Communication Interface	
Ethernet	Ethernet (RJ45)
Default IP address	192.168.1.122(customized)
Default port	5000
Operation mode	TCPserver

Product Checklist

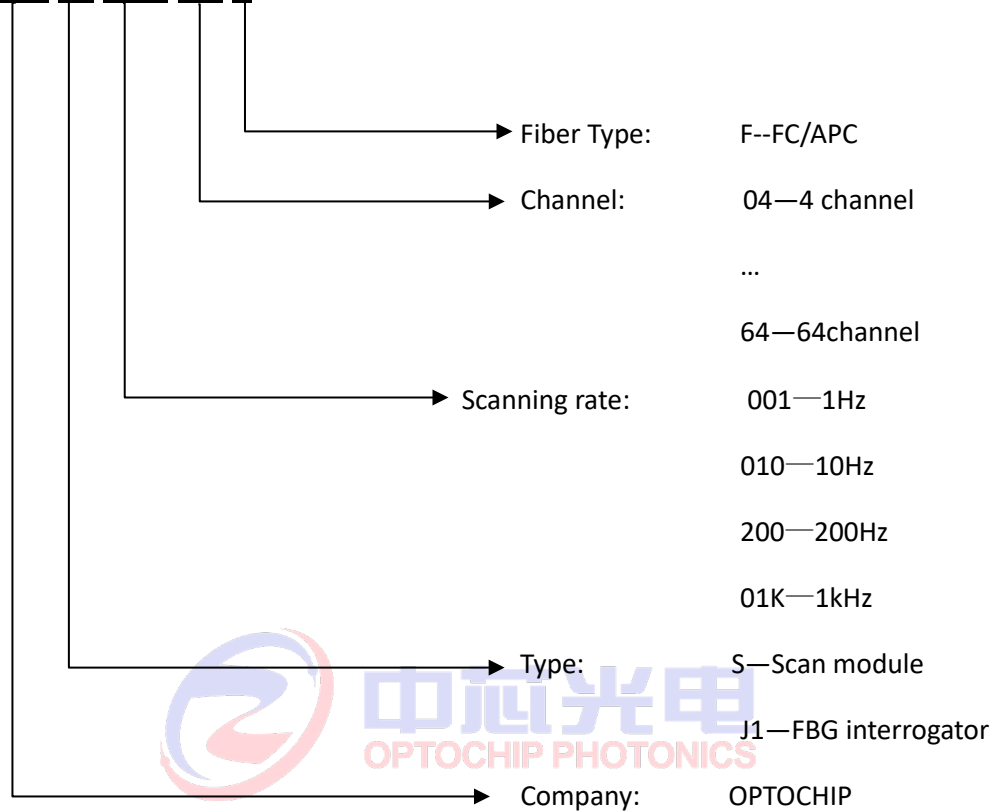
Assembly	Quantity
FBG interrogator	1
CAT 5 network cable	1 (length:2m)
Power adapter	1
User software	1 (Demodulation software and its installation instruction for host PC)





Ordering information (Product serial number)

e.g.: O C J1 001 XX F



Contact us

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