

1、 Product Introduction

FBL 0210 is a device that can realize bidirectional transparent conversion and transmission between Ethernet data electrical signals and optical fiber data signals. Ethernet data signals can be transmitted over distances from hundreds of meters to hundreds of kilometers through optical fiber lines, greatly extending the coverage of Ethernet networks (conventional twisted pair cable transmission generally does not exceed 100 meters). Optical fiber communication has the characteristics of long transmission distance, large communication data capacity, strong anti-electromagnetic interference ability, and low medium and long distance transmission cost. It is suitable for telecommunications, radio and television, broadband networks, security monitoring, industrial control, automation systems, and other Ethernet network environments that require high speed, high data flow, high performance, and high reliability.

2、 Product Features

- > Meet the needs of high-speed interconnection and transparent transmission of metropolitan optical networks or optical access networks
- > Support 3R functions: optical signal equalization amplification, clock extraction and optical recognition regeneration
- > Support SAN, LAN, WAN, point-to-point transmission
- > Optical port rate: support 1G~50G rate
- > Transparent transmission and extremely low latency support DWDM/CWDM wavelengths specified by ITUT, combined with EDFA optical amplification and dispersion management to extend transmission distance
- > Support network management function: WEB Smartoptics
- > Easy to install

3. Product parameters

parameter	unit	equipment	1U
Device, slot		SFP *2	1 4 slots
size	Mm		482.6×300×44
Power supply type		DC 5 V	
Operating temperature	°C	-5 ~ +65	
Storage temperature	°C	-20 ~ +70	
Relative humidity		5 % ~ 95% non-condensing	

4. Schematic diagram of the frame mentality

4.1、 Single device schematic diagram



4.2 1U frame diagram



5. Instructions for use

5.1、 Device panel description



Front Panel



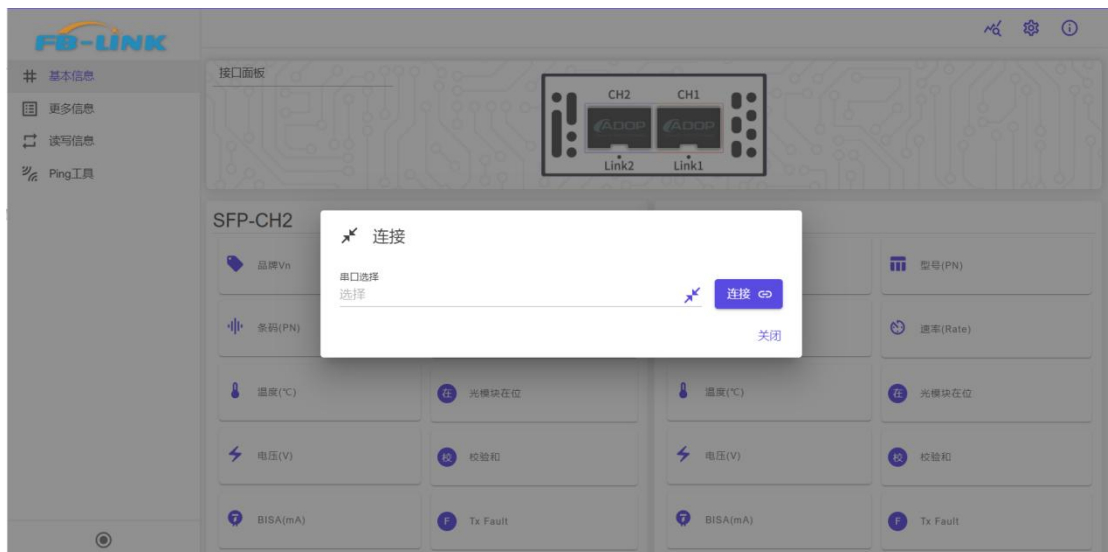
Rear Panel

- 1) Link 1 , link 2 optical module interface: used for optical module link
- 2) Type-C interface: device status viewing interface
- 3) DC interface: DC 5.5 mm power interface, working voltage 5V- 2 A

5.2 Operation Instructions

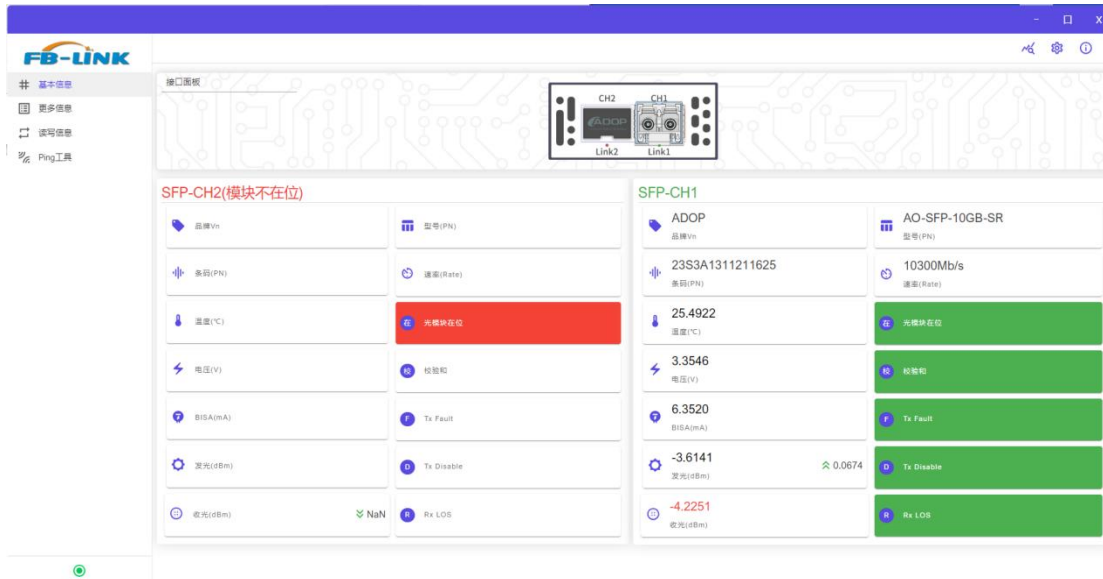
5.2.1 、 Network Management Interface Operation Instructions

- 1) Use a USB - TypeC data cable to connect the Type-C port on the rear panel.
- 2) Open the specified exe program and select the serial port in the lower left corner to connect (Note: If you use the software for the first time, you need to authorize and activate the software)



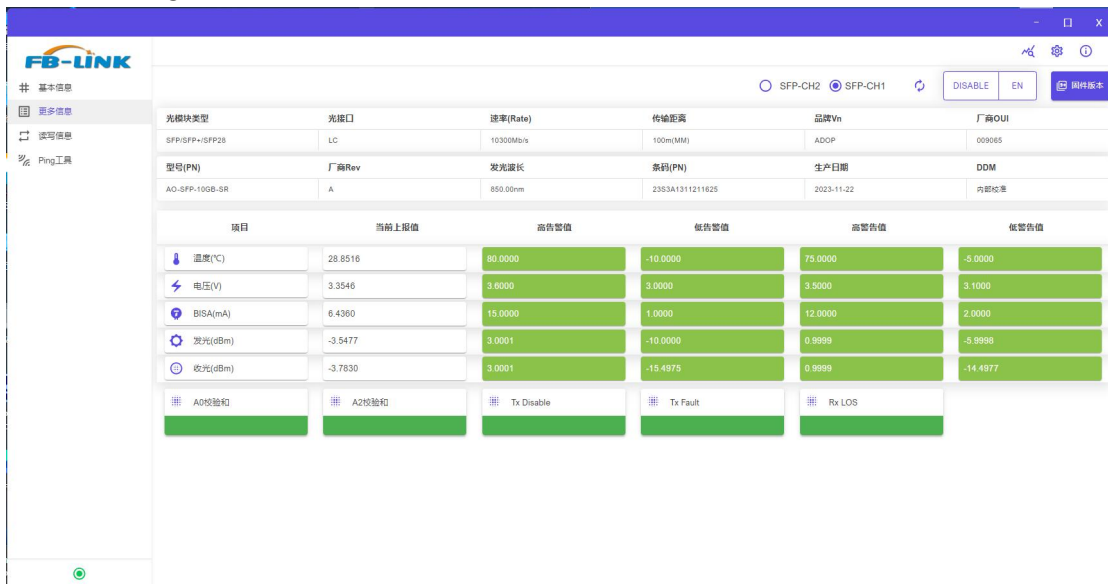
- 4) After successfully connecting to the device, you can monitor the device interface and

view DDM information.



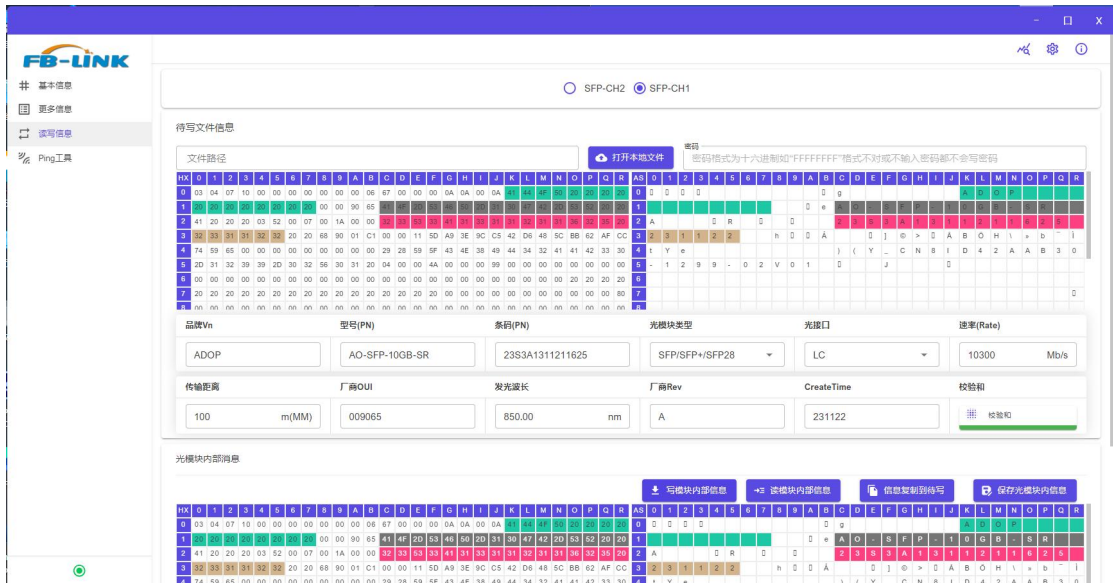
5) More information Function instructions

In More Information, you can view detailed information about the module used, including the interface, wavelength, production date, and transmit and receive light threshold range.



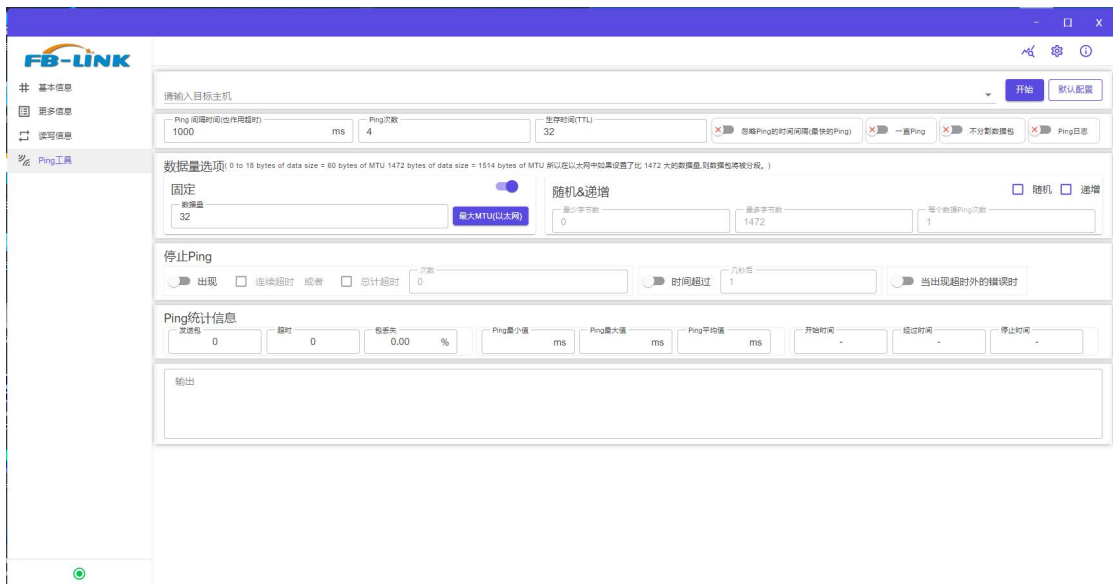
6) Instructions for reading and writing information

The read and write information function can solve the compatibility problem between the module and the switch.



7) Ping Tool Function Instructions

The Ping tool can be used to check the communication status of the entire link and connect to the computer's network port to perform a link test when on-site services are not enabled.



6. Precautions and equipment maintenance

6.1 Equipment maintenance

Reasonable use and proper storage of equipment can maintain good performance indicators for a long time and extend its service life, so it is necessary to

Maintenance:

1) The equipment should be protected from strong mechanical vibration, collision, falling and other mechanical damage. It must be well packed during transportation.

Installation and vibration reduction, rainproof and waterproof measures.

2) The equipment should be kept clean at all times, and the working environment should be free of corrosive gases such as acid and alkali.

Gently wipe the panel with a clean towel soaked in soapy water. Do not use solvents such as alcohol to wipe it.

If you have any questions, please contact us. We will be very happy to hear your valuable opinions.