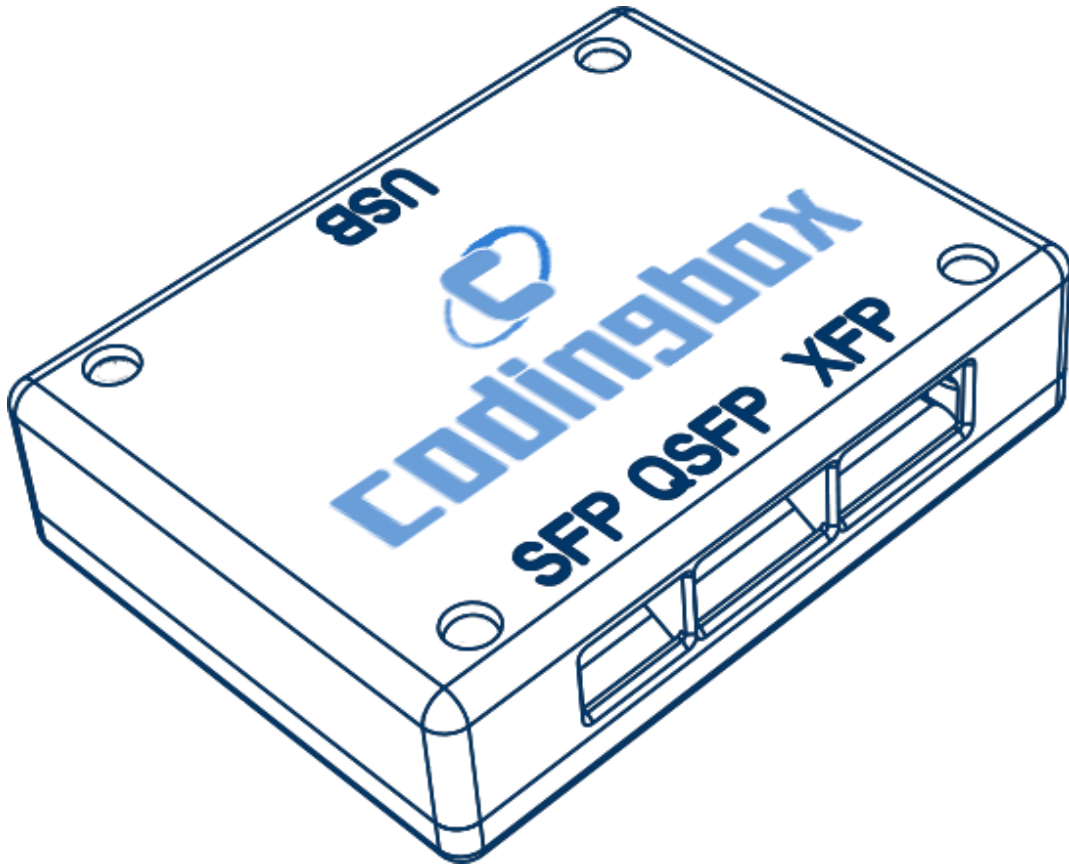


USER SPECIFICATION

SFP/QSFP/XFP 3-in-1 CodingBox



Product Introduction



Figure 1: Device

- ①Green_LED: Normal Power Supply Indicator
- ②Red_LED: Device Initialization Abnormal
- ③White_LED: Operation Status Indicator
- ④MicroUSB_Interface: USB Connection
- ⑤Digital tube: Number Display
- ⑥SFP_Transceiver: SFP Standard Interface
- ⑦XFP_Transceiver: XFP Standard Interface
- ⑧QSFP_Transceiver: QSFP Standard Interface
- ⑨I2C interface:SCL, SDA and GND Signal

Detail

CodingBox, a efficient encoder device, is designed to reprogram the SFP/SFP+/SFP28/XFP/QSFP/QSFP28/CSFP-OPTION1/CSFP-OPTION2 optical transceiver. After this, an optical transceiver can be adapted to different communication applications, like Cisco, H3C, Dell, Juniper, saving cost and time.

We design an external 3-plug I2C interface signals, SCL, SDA, GND, so users can customize and self-program I2C communication timing or monitor current I2C timing by connecting a real time oscilloscope to analyse timing issues.

Features

- SFP/SFP+/SFP28/XFP/QSFP+/QSFP28 code reprogramming
- 5V/0.9A power supply parameter
- Simple application environment only USB interface
- Support windows XP, windows 7, windows 10 system
- API manual for self-packaging commands
- Matching multi-function software, including reading and writing of subtables under universal address AO and A2, DOM function, meaning the return of diagnostic results based on MSA standards SFF-8472, low speed state or control signal as TX_Disable, RX_Los, TX_Fault, interpret the information of the coding area of the transceiver based on MSA.

Application

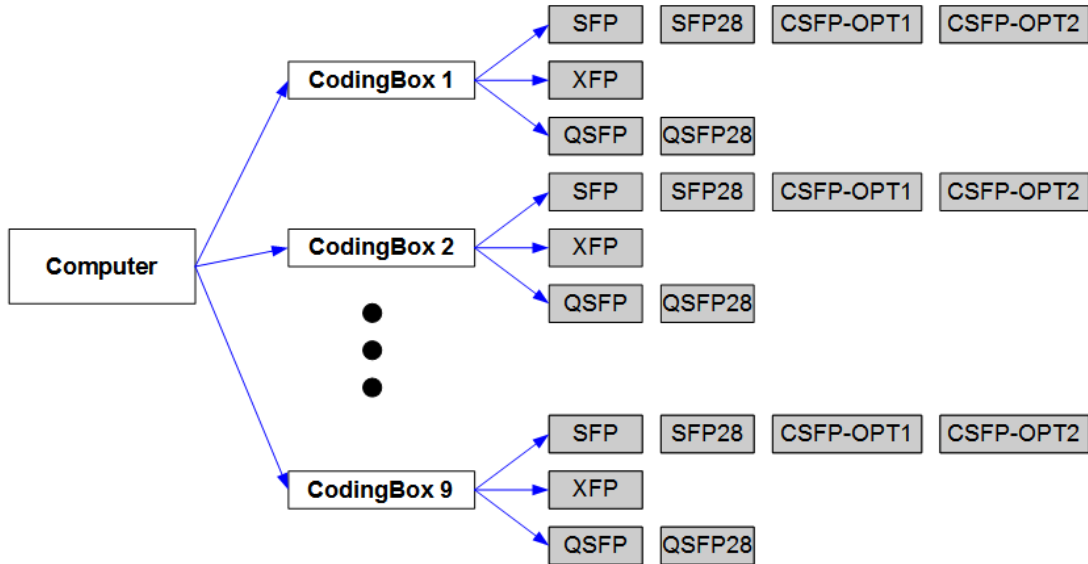


Figure 2: Application

For plug and play, we design the CodingBox mounted on computer's USB port. You can use it by connecting a USB data cable between the CodingBox and your computer, conveniently.

As shown in figure 2, up to 9 CodingBoxes can be mounted on one computer at a time, we name these as CodingBox1, CodingBox2, ...CodingBox9. Each can insert the type of transceiver that you want to operate. In the near future, efficient reprogramming of QSFP-4SFP cable could become reality.

NOTE

Only one module can be operated at a time by CodingBox.

When the red indicator light, you should disconnect the CodingBox' s USB power supply immediately and send an Email to “support@sfpcodingbox.com” to Seek technical support and we will deal with it as soon as possible.

Version

Version	Date	Directions
1.0	2018-05-14	General function introduction, initial release
1.1	2018-05-18	Streamlined content
1.2	2018-10-17	Streamlined content