TYFIBER USB 3.0 Hub for USB 3.0/3.1 AOC USB-HUB-A

Description

The TYFIBER USB 3.0 hub has one uplink port and four downstream ports. WIth the TYFIBER USB 3.0/3.1 AOC, the transmission distance of the connection between the uplink port and the host port can be greatly extended at a communication transmission rate up to 5Gbps. The downstream port is compatible with four USB 3.0 at the same time.

Functions

- Free driver
- Plug and Play
- General support across all major OS and platforms that offer USB such as PC, MAC, Linux, etc., such as Win XP, Win7, Win8, Win10, 32bit or 64bit, MacOS
- External power supply, 12V Aviation power plug
- Low power mode when USB is in idle state
- The output current of Port-1/2/3 is up to 900mA, and the output current of Port-4 is up to 1500mA (quick charge), which can supply for external power supply
- The downstream port has over current protection function (the port is automatically locked, the hub is re-energized, and the port function is restored)
- The uplink port can be used with the TYFIBER USB 3.0/3.1 AOC

Notes:
1. When the uplink port is used with TYFIBER USB 3.0/3.1 AOC, the downstream port is only compatible with USB 3.0.
2. When the uplink port is used with USB 3.0 copper cable, the downstream port is compatible with USB 3.0/2.0/1.1/1.0.

Applications

The TYFIBER USB 3.0 hub is mainly deigned for multi-usb port requirements, and can meet the simultaneous access of multi-channel USB peripherals. Used with TYFIBER USB 3.0/3.1 AOC, it can easily implement multi-channel USB signal remote transmission, such as the video monitoring system of multi-channel USB 3.0 cameras. The USB 3.0 can also be extended by start external equipment, such as: U disk, printer, card reader, mobile hard disk, etc..

The TYFIBER USB 3.0/3.1 that can be used with USB 3.0 HUB are as follows:

Part Number	Product Description
G-USBAOC-3-xxxC	USB 3.0 Active Optical Cables, length up to 100 meters
G-USBAOC-31-xxxC	USB 3.1 Active Optical Cables, length up to 50 meters

Note: xxx stands for cable length, such as 001(1m)、010(10m) and 050(50m).

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage	Vcc	11.5	13.5	V
Storage Temperature	Ts	-10	+100	°C

Technical Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Operating Temperature	Tc	0	25	55	°C
External Power Supply Voltage	Vcc	11.5	12	13.5	V
External Power Supply current(12V, No	Icc	50	60	70	mA
Downstream (Port-1/2/3) current output	I		900	950	mA
Downstream (Port-4) current output	I		1500	1600	mA
Physical Dimensions			184.2 (W)x66.4(D) x24(H)		mm
Weight			180		g

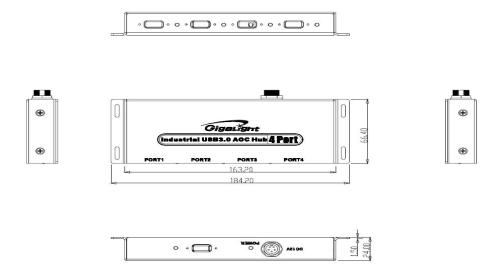## Optical and Electrical Characteristics

Main Frame	
UpstreamProtocols Supported	Universal Serial Bus 3.0/2.0/1.1Specification
DownstreamProtocols Supported	Universal Serial Bus 3.0/2.0/1.1 Specification
UpstreamData Rate	5.0Gbps
Downstream Data Rate	5.0Gbps @USB 3.0
	480Mbps @USB 2.0 (do not support aoc)
	12Mbps @USB 1.1 (do not support aoc)

Hardware Configuration

LED	Display	Description
POWER	Off	No Power Supply
	Red	Power Supply OK
PROT1	Off	USB Signal Access NG
	Green	USB Signal Access OK
PROT2	Off	USB Signal Access NG
	Green	USB Signal Access OK
PROT3	Off	USB Signal Access NG
	Green	USB Signal Access OK
PROT4	Off	USB Signal Access NG
	Green	USB Signal Access OK

Mechanical Dimensions

Ordering Information

Part Number	Product Description
USB-HUB-A	USB 3.0 Hub for USB 3.0/3.1 AOC

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by TYFIBER before they become applicable to any particular order orcontract. In accordance with the TYFIBER policy of continuous improvement specifications may change without notice.

The publication of information in this data sheet does not imply freedom from patent or other protective rights of TYFIBER or others. Further details are available from any TYFIBER sales representative.

E-mail: sales@tyfiber.com
Web: tyfiber.com