USB 3.0 Active Optical Cable (AOC)

The USB 3.0 Active Optical Cable was designed to be fully compliant with SuperSpeed USB electrical specifications. It uses electrical-to-optical conversion on the cable ends to improve speed and distance performance of the cable which supports far longer distance than standard copper cable, with lengths of up to 100m available.

With an ultra-thin profile and long reach, the USB 3.0 AOC breaks the distance barrier and introduces USB 3.0 devices to a whole new range of applications, such as long distance machine vision, security & High Definition surveillance, industrial & medical machine control.

AOC offer a quick solution to supply longer cable for USB 3.0 application.
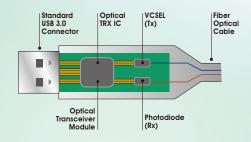
Features:

- Extend USB3.0 devices up to 100m over fiber optics
- Convert USB electrical data signal to optical signal
- Compliant with SuperSpeed USB specifications, 5Gbps data rate
- Supports 850 nm VCSEL (Multi-Mode)
- Less EMI/RFI for sensitive environment
- Metal housing for superior EMI performance
- Low power consumption
- Plug and play
- Lighter, thinner, 3.0mm fiber cable diameter
- Supports all major operating systems including Windows, Mac OS 10.8 and higher, and Linux Kernel 3.11.10 and higher
- Available in 10m/20m/30m/50m/100m lengths

Application:

- Zero Client Connectivity
- USB3.0 device sharing: printer, scanner, storage
- Security: web camera, access control
- Smart Digital Video Surveillance System
- Home Networking integration
- Industrial and medical machine control
- Remote Storage & HD Display

Specifications:

Item	USB 3.0 AOC Cable
Model name	LAN-AOC100 series
Connector	USB3.0 Standard-A Plug
Housing	Metal- Zinc Alloy
Cable diameter	3.0mm
Max. data rate	5.0Gbps
Range	100m (330 ft) over multimode optical fiber
Optical Transceiver	850 nm VCSEL (multimode)/ GaAs PD
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F).
Humidity	5% to 90% (non-condensing)
Cable lengths	10m/20m/30m/50m/100m

Ordering information

Part number	Description
LAN-AOC10	USB 3.0 AOC 10 meter
LAN-AOC20	USB 3.0 AOC 20 meter
LAN-AOC30	USB 3.0 AOC 30 meter
LAN-AOC50	USB 3.0 AOC 50 meter
LAN-AOC100	USB 3.0 AOC 100 meter

Note: USB3.0 AOC not backwards compatible with USB 2.0, we also offer optional accessory-USB3.0 Super TT Dongle which allows USB 3.0 AOC compatible with USB 2.0 and 1.1

Standard USB 3.0 Connector · Optical TRX IC · VCSEL (Tx) · Fiber Optical Cable

Optical Transceiver Module · Photodiode (Rx)

Up to 100m

USB3.0 Host · USB3.0 AOC · USB3.0 Hub · USB3.0 Devices

Made in Taiwan