



YDSAOC-10G-USB32-AM-AM 10Gbps Active Fiber Optical USB 3.2 Extension Cable

Overview

YDSAOC 10Gbps Active Fiber Optical USB 3.2 Extension Cable

USB 3.2 AOC (Type-A Male to Type-A Male) fuses fiber optic technology with USB connectivity to meet the growing demand for high-bandwidth connections. By replacing traditional copper cabling, it overcomes distance and interference limitations while delivering reliable, high-performance data transmission.



Key Features

- ♦ **High Bandwidth** – Compliant with the latest USB 3.2 standard, supporting SuperSpeed data rates up to 10Gbps
- ♦ **Long-Distance Transmission** – Delivers lossless signals over a maximum length of 50 meters
- ♦ **Backward Compatible** – Works with USB 3.2 Gen 2, USB 3.1 Gen 2, USB 3.0, and USB 2.0 devices
- ♦ **On-Cable Power** – Supplies up to 5V / 900mA to the remote device; hybrid fiber/copper design requires no external power source
- ♦ **Easy Installation** – Plug-and-play on both ends with unidirectional design
- ♦ **EMI/RFI Resistance** – Near-zero electromagnetic/radio-frequency interference profile for a sAMe, radiation-free environment
- ♦ **Customizable** – Options for custom length, logo, and packaging (up to 50m)

Intended Applications

- ♦ Machine Vision & Camera Link
- ♦ Medical Imaging Equipment
- ♦ Conference Room & Video Conference Systems
- ♦ Digital Signage & LED Signboards
- ♦ Home Theater, Blu-ray, 3D Video, Projectors & Set-top Boxes
- ♦ Radio & TV Broadcast Stations



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- ◆ Airplane On-board Video Systems
- ◆ Security Monitoring Systems
- ◆ DVR & Game Console Monitoring
- ◆ Gaming PCs, Hard Drives, Scanners, Touch Screens, Webcams, Access Control, Mobile Terminals

Ideal For

Environments requiring extended transmission distances without on-site power, where high reliability in electromagnetically complex settings is essential.

Key Specifications

YDSAOC Model Number	YDSAOC-10G-USB32-AM-AM
Order Part Numbers	YDSAOC-10G-USB32-AM-AM-1003 YDSAOC-10G-USB32-AM-AM-50015 YDSAOC-10G-USB32-AM-AM-100030 YDSAOC-10G-USB32-AM-AM-200060 YDSAOC-10G-USB32-AM-AM-300090
Length	1m(3ft), 5m(15ft), 10m(30t), 20m(60ft). 30m(90ft)
Maximum Support Length	up to 50m(150ft)
Maximum Data Speed	up to 10Gbps
Connector A	USB 3.2 Type-A Male
Connector B	USB 3.2 Type-A Male
USB Protocols	USB 3.2 Gen 2, USB 3.1 Gen 2, USB 3.0, USB 2.0
Support Functions	Data Transfer, Power Transfer 5V/900mA
Cable Diameter	4.8mm
Cable Jacket Type	PVC
Cable Color	Black
AOC Constructions	Hybrid, 2x Optical Fiber, 4x Copper Wire
Minimum Bending Radius	50mm
Operating Temperature	0°C to 70°C
Storage Temperature	- 40°C to 85°C
Installation Direction	Bidirectional, No Check on Directions
Power Connect	No External Power is Required

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Zinc Alloy Shell: Effectively Protects the Module

Made of high-quality zinc alloy with a refined gun-gray finish, the shell offers high hardness, corrosion resistance, and long-lasting durability.



Premium Zinc Alloy Shell

Sturdy zinc alloy casing provides excellent protection for the internal module.



High Hardness & Durability

Resists wear, pressure, and impact for long-term reliability.



Corrosion-Resistant

Gun-gray finish resists corrosion, oxidation, and daily wear.



Exquisite Craftsmanship

Smooth edges, precise fit, and premium texture for a refined look and feel.



10G Fiber: Zero Radiation Anti-Interference

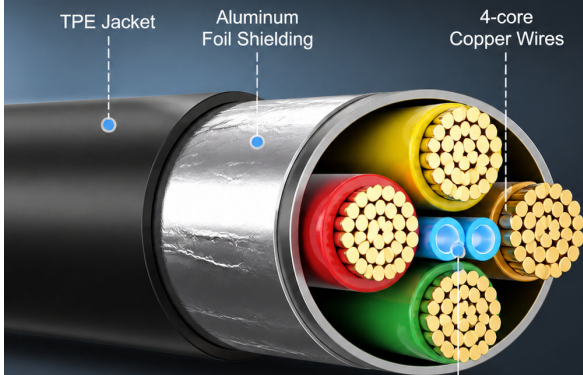
Hybrid fiber-copper design for stable, interference-free signals.

TPE Jacket

Aluminum
Foil Shielding

4-core
Copper Wires

2-core 10G Fiber



Note: Internal structure is a render, refer to actual product.

Fiber Optic Extension Cable - Product Features

USB 3.2 High-Speed Transmission, Stable & Reliable



1. USB 3.2 Fast Transmission

Up to 10Gbps super-speed data transfer.



2. No Delay Over Long Distances

Supports up to 50 meters with zero signal loss.



3. No Radiation & Anti-Interference

Fiber optic transmission ensures a stable and clean signal.



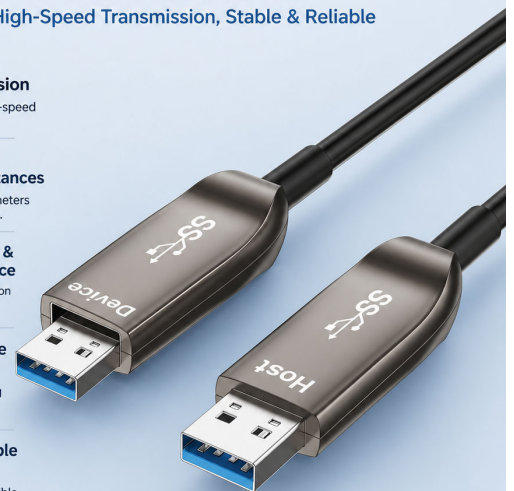
4. Damage-Free Bending

Resistant to bending and pulling, built for long-term use.



5. Slim & Flexible Cable

Lightweight and flexible design for easy installation in tight spaces.



USB 3.2
SuperSpeed+



10Gbps
Max Speed



50m
Max Distance



Stable &
Reliable



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Zinc Alloy Shell



Sturdy Connector



Tinned Copper Core



Flexible Cable Body

Tear-Resistant & Durable



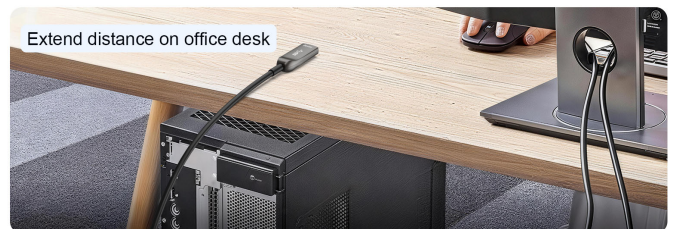
Connect to printer



Connect to camera



Extend distance for digital devices



Extend distance on office desk

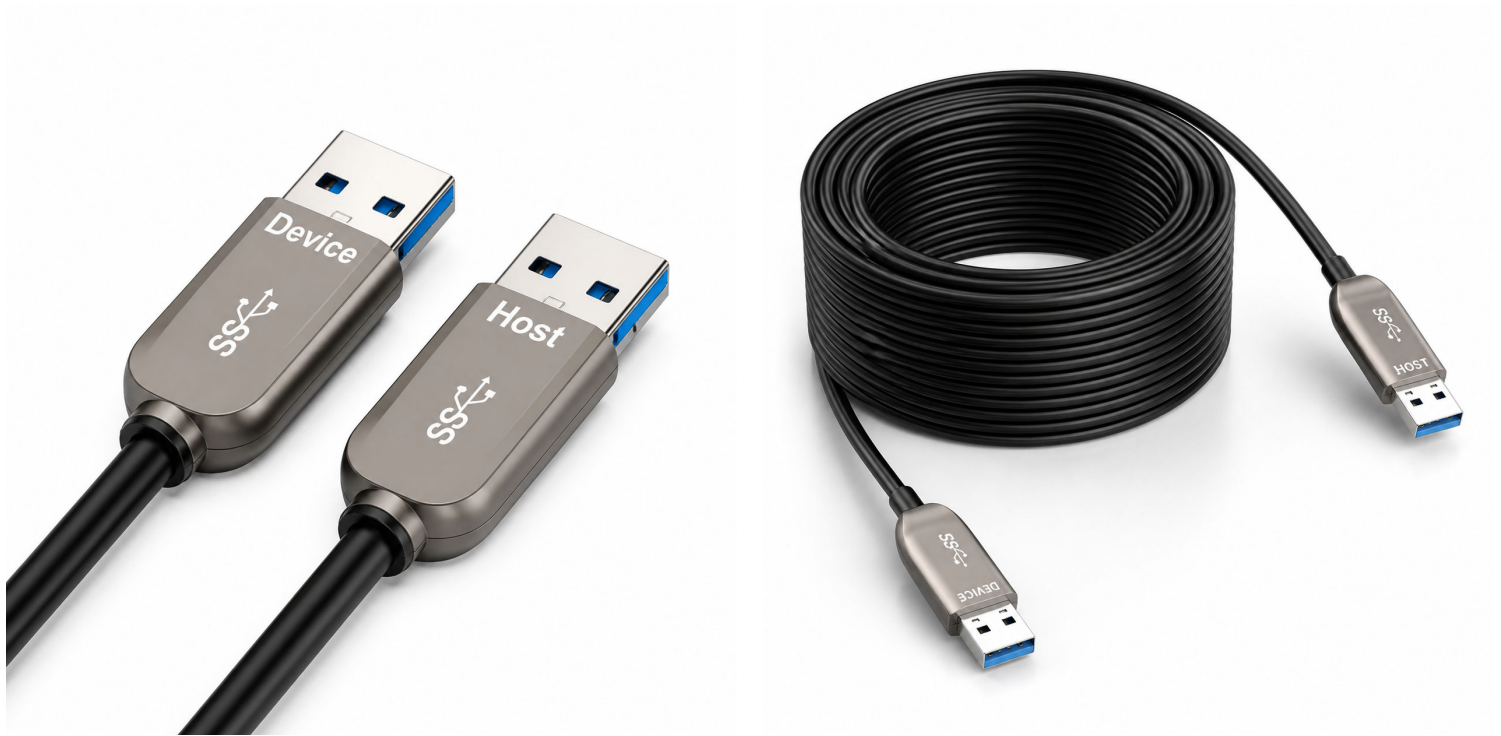
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Product Specifications

Product Name: Fiber Optic USB3.2 Extension Cable

Shell: Zinc Alloy Shell

Bandwidth: 10Gbps

Material: PVC Sheath

Interface: USB3.2 Gen2 (Backward Compatible)

Warranty: 1 Year

Length: 50m

PS: The dimensions marked for the product on this page are measured manually, so slight variations may occur.

Extension & Expansion: Handled Easily with One Cable

Male Port



Laptop



Desktop PC



TV



Game Console



Male Port



USB Flash Drive



Gaming Device



Keyboard/Mouse



Hard Drive/Reader



HD Camera



Kinect Sensor



YDSAOC 10Gbps Active Fiber Optical USB 3.2 Extension Cable

Model: YDSAOC-10G-USB32-AM-AM | Type-A Male to Type-A Male

KEY FEATURES

10 Gbps

10Gbps SuperSpeed Data Rates
(USB 3.2 Standard)

50 m

Up to 50 Meters
Lossless Transmission



Backward Compatible
(USB 3.2 Gen 2/Gen 1, USB 3.0, 2.0, 1.1)



5V / 900mA On-Cable Power Supply
(No External Power Needed)



Plug-and-Play Installation



EMI/RFI Resistance
(Electromagnetically Safe)



Custom Length, Logo & Packaging Options



10Gbps

SuperSpeed

APPLICATIONS



Machine Vision & Camera Link



Medical Imaging Equipment



Conference Room & Video Conference Systems



Digital Signage & LED Signboards



Home Theater, Blu-ray, 3D Video, Projectors



Radio & TV Broadcast Stations



Airplane On-board Video Systems



Security Monitoring Systems



DVR & Game Console Monitoring



Gaming PCs, Hard Drives, Scanners, Webcams



Active Fiber Optical Technology
Ultra-long distance, high performance



Stable & Reliable Transmission
Low latency, zero data loss



10Gbps Bandwidth
Up to 10X faster than USB 2.0



Durable & Flexible
Tough jacket with high flexibility



Wide Operating Temperature
0°C to 50°C



Premium Quality
Tested for performance and reliability

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Conference Room Systems

Professional audio & video solutions for modern meeting spaces.



Video Conferencing

Crystal-clear video, immersive audio, seamless collaboration.



High-Speed USB 3.2 AOC

Reliable, high-performance connectivity over long distances.



High-Speed USB 3.2 AOC Connectivity



10Gbps Data Transfer



100m+ Transmission



Stable & Reliable



YDSAOC USB 3.2 AOC Cable

Active Optical Cable for maximum performance and extended reach.

Row 1 - Legacy/USB 2.0 Connectors



USB Type A



USB Type B



USB Mini A



USB Mini B



USB Micro A



USB Micro B

Row 2 - Modern Connectors



USB Type C



USB Micro B 3.0



USB 3.0 Type A



USB 3.0 Type B



USB 3.0 Micro B

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Applications of Active Optical Cable (AOC)

High-speed, long-distance connectivity across diverse industries.



1 Traffic Monitoring

Uninterrupted connectivity for real-time traffic data, safety and efficiency.



2 Security & Surveillance

HD/4K/8K video support, effective monitoring without downtime.



3 Control Rooms

Ultra-high bandwidth for instantaneous data and video switching.



4 Healthcare

EMI/RFI immunity ensures reliable transmission in medical environments.



5 Education

Connectivity in large lecture halls, overcoming copper cable limits.



6 Digital Signage

High-quality displays with consistent transmission of information.



7 Conference Rooms

Plug-and-play design makes connectivity easy for presenters.



8 Government Campuses

Thinner and more flexible than copper, reducing cable clutter.



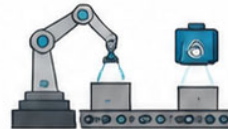
9 USB4 Applications

Extends reach while maintaining power and signal integrity.



10 Audio Visual Entertainment

Superior signal quality for home theaters and gaming.



11 Industrial & Machine Vision

Durable, high-performance for automated inspection.



12 Broadcast Systems

High bandwidth and low latency for seamless content delivery.



13 Simulation Systems

Real-time transmission for realistic training.



14 Data Centers & HPC

Pivotal for high-performance computing and extensive configurations.



15 Consumer Electronics & IT

High-res displays, VR devices, and high-bandwidth apps.



16 Aerospace, Defense & Automotive

High-speed, robust connectivity for critical sectors.

Core Benefits



Reliability



Long Distance



EMI Immunity



High Bandwidth



Flexible Installation



Power Delivery



Plug-and-Play