Revolutionary USB ACTIVE OPTICAL CABLE

Go4Fiber provides revolutionary change to normal USB cable for monitoring and video applications. Normally, USB cable could be only 5m in maximum as the limitation of propagation of electromagnetic fields on USB data lines.

Now, revolutionary USB active optical cables are available. It extends USB 3.0 super speed devices up to 100m over OM2 fiber. Compared to traditional USB cable, USB AOC has competitive strength by neglecting extenders, hubs and additional power supply.

The fiber part of USB 3.0 AOC does not carry power so upstream connector should be powered by Host side. Host side should be USB 3.0 compatible computer (host computer) with a USB 3.0 compliant operation system.

Features

- Extends USB 3.0 super speed devices up to 100m over OM2 fiber
- Supports self-powered USB 3.0 compliant device
- Up to 5Gbps data rate for USB 3.0
- 850nm VCSEL transmitter, PIN photo-detector receiver
- Supports all major operating systems including Windows, Mac OS, and Linux
- Low power consumption
- All-metal shell for superior EMI performance

Applications

- Industrial Control
- Digital Signage
- Home Network Integration
- Medical Device Connectivity
- KVM Extension
- Security: web camera, access control
- USB 3.0 Devices Sharing: print, scan, storage

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## Specification of USB 3.0 AOC

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protocols Supported</td>
<td>Universal Serial Bus 3.0 Specification</td>
</tr>
<tr>
<td>Data Rate</td>
<td>5.0Gbps</td>
</tr>
<tr>
<td>BER</td>
<td>&lt;10^{-12}</td>
</tr>
<tr>
<td>Operating Case Temperature</td>
<td>0 to +70°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20 to +85°C</td>
</tr>
<tr>
<td>*Supply Voltage</td>
<td>5.0V</td>
</tr>
<tr>
<td>*Supply Current</td>
<td>Max. 80mA per end typical</td>
</tr>
</tbody>
</table>

* The fiber part of USB 3.0 AOC does not carry power and current itself so upstream connector should be powered by Host side.

* USB 3.0 AOC will not function when connected to USB2.0/USB1.1 Host.

### Ordering Information

![Diagram showing system connectivity]

**USB 3.0 AOC over 100M**

O/E module integrated active optical cable for high speed data link >100M @5Gbps

**End#1**
- Connector type: A: USB 3.0
- L: LC/PC

**End#2**
- Connector type: A: USB 3.0

**Cable Length:**
- 0010: 1.0 meter
- 0050: 5.0 meter
- 0500: 50.0 meter
- 1000: 100.0 meter