



## USB 3.1 GEN 2 A to B AOC (downward compatible with USB 2.0)

### Description

USB 3.1 A to Type C AOC is the first Gen2 active optical cable in the market. Super speed data transmission depending on optical fiber, not only its support length become much longer up to 50m max, but also signal quality is much more stable, no EMI completely, can support 10Gbps super speed, meets USB3.1 standard, especially can downward compatible with USB 2.0 .It is a mature & competitive solution in the high speed data transmission market .

### Key Features

- Meet USB 3.1 Gen2 Standard , bandwidth can reach to 10Gbps super speed
- Uncompressed signal and the image quality is not distorted.
- Hybrid copper and fiber cable, anti-interference, no radiation, strong resistance to EMI
- Standard USB Type A & C interface
- 850nm VCSEL and PIN photodetector
- Plug and play, support hot plug
- Cable OD less than 4.8mm, lighter application
- Request devices self-powered
- Applicable length: 1-50 meters, support other distance customization.

## Key Features

Parameter	Minimum	Symbol	Maximum	Unit	Remark
USB3.1 Transfer Rate		10	10		Uni- directional , 10Gbps
Operating Temperature	-20	25	50	°C	
Consumption	0.35	0.4	0.5	W	TX & RX AOC
Supply Voltage	4.5	5	5.5	V	
Working Current		90		mA	
Tensile strength		200		N	Short term 300N, Long term 150N
Crush resistance		100		N	Short term 500N/100mm, Long term 100N/100mm
Minimum bending radius	20	40		mm	static (working) 40mm
Minimum bending radius (dynamic)		20000		cycle	180°swing, NO Open
Diameter		4.8		mm	
Cable length	1	3	50	M	
Wavelength		850		nm	
Execution error rate		1.00E-11			
VCSEL output power		Class 1			EN 60825-1 2007 EN 60825-2 A2 2010
Hot plug		Yes			
Wire Spec.	fiber	2*OM3-850		nm	G651 OM3
Connector Structure		24		Pins	USB C Type Port
RoHS directive		RoHS			