

### 25G SFP28 to SFP28 AOC, 25G SFP28 Active Optical Cable.

This 25G SFP28 AOC - active optical cable is an end-to-end enclosed system for linking two SFP28 data ports within the 25Gbps SR distances to each other. The SFP28 MSA-compliant implementation allows the user to plug-and-play the solution into any link length up to 100m to operate at the IEEE 25G 802.3by data link specification. The SFP28 cable is a self-contained, end-to-end link using 25Gbps opto-electronics with CDR and a proprietary optical engine. The optical ends are never exposed to the data center environment; therefore, no cleaning or special handling is required.



The 25G SFP28 AOC provide a superior alternative to the direct-attach copper cables of the past. Offering full compliance to 25G Ethernet standard and improved power efficiency than active copper cables, this active optical cables also bring plug-and-play simplicity, better EMI, improved bend radius, and increased reach of up to 100 meters – all while being substantially lighter and thinner than copper.

#### Features

- Hot-pluggable SFP28 form-factor connectors
- 850nm VCSEL laser and PIN photo-detector
- Internal CDR circuits on both receiver and transmitter channels
- Compliant with SFP28 MSA and IEEE 802.3by 25GBASE-SR
- Data rate up to 25.78Gbps
- Length up to 70m (OM3) or 100m (OM4) over MMF
- Power consumption < 1W per end
- Operating case temperature range from 0°C to 70°C
- 3.3V power supply voltage
- RoHS compliant (lead free)

#### Applications

- 25GBASE Ethernet
- 16G Fibre Channel
- Servers, switches, storage and host card adapters



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## Connection Diagrams

Scenario 1



Scenario 2



### SPECIFICATIONS

|                   |                         |
|-------------------|-------------------------|
| Connector A       | 25G SFP28               |
| Connector B       | 25G SFP28               |
| Max Data Rate     | 25Gbps/28Gbps           |
| Max Length        | 100m (328ft)            |
| Wavelength        | 850nm                   |
| Media             | OM4 MMF                 |
| Temperature       | 0 to 70°C (32 to 158°F) |
| Power Consumption | < 1W                    |

## 25G AOC Connectivity for Data Center

Featured with low-power, high-density and high-speed, the SFP28 transceiver offers a popular way to help you quickly ramp up to 25G transmission.



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