

## DP 1.4 AOC – active optical Displayport Cable for max Length 100m



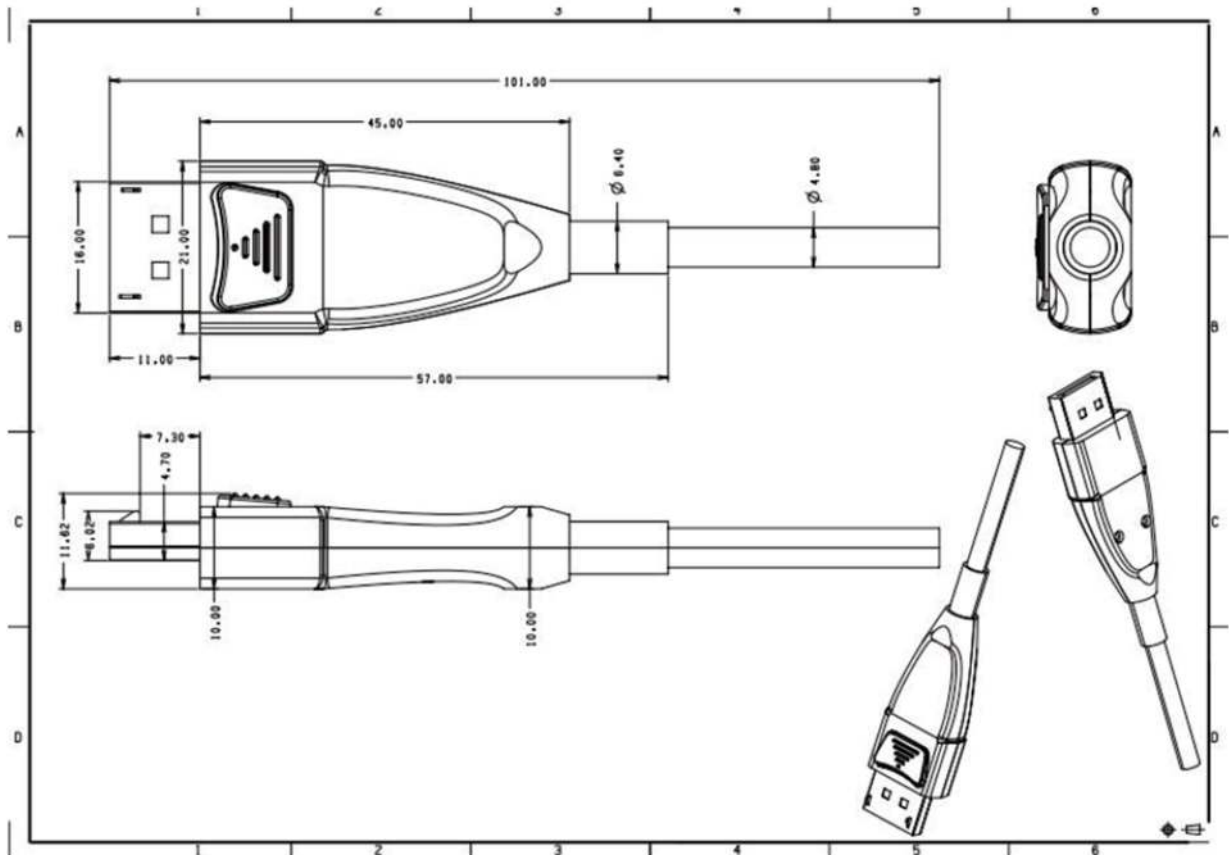
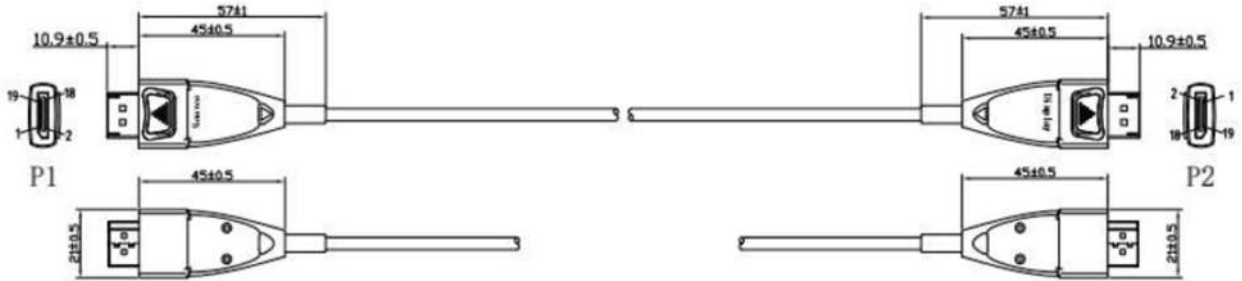
### Features

- Compliant with Displayport 1.4 Standard
- Length up to 100m and more
- Supports 8.1 Gbit/sec and channel, total 32Gbit/sec
- Supports 8K@60Hz, HBR3, HDCP 1.4 / 2.2; very good compatibility
- OD 4,8mm, very slim an flexible
- Very good EMI behaviour due to optical technology
  
- Bonded chip and lens for high reliability and stable quality
- Made in Taiwan in a fully automated production line
- Customization possible
- Steel arming available

## Application

- Industrial PC
- Medical Application
- Airplane On-board Video System
- Security Systems
- Conference Room Equipment
- Home Theater

# Physical Drawing



DP 1.4 AOC Drawing

# Specification

## 1. Performance

Standards Compliance	DisplayPort 1.4 / HBR3, HDCP 1.4/2.2
Maximum Pixel Clock Frequency	810 MHZ
Maximum Video Bit Rate	Supports up to 8.1 Gbps per lane, 32.4 Gbps Total
Maximum Color Depth	48bits
Maximum Supported Resolutions	8K@ 60Hz

## 2. Connections

DisplayPort Input / Output	20-pinDisplayPort
Power	No external power supply is required

## 3. AUX Channel Support

AUX Channel Communications	Supports bidirectional communications for EDID, HDCP, Link Training, etc.
HDCP Support	HDCP 1.4 and HDCP 2.2

## 4. Optical

Optical Technology	4x Discrete Optical Channels, 10GHz, 850nm
Optical Transmitter	Tx Module:4x 850 nm Multi-mode VCSELs
Optical Receiver	Rx Module:4x GaAs PIN Photo Diodes

### 5. Cable

Fiber Cable Type	Hybrid cable 4x fiber and 8x copper wire
Cable Jacket	PVC, Black
Maximum Color Length	100 meters

### 6. Mechanical-Cable

Product Weight	Varies with length
Maximum Tensile Load 300N	300N
Minimum Bend Radius	48mm
Cable Outside Diameter(W+H)	4.8mm

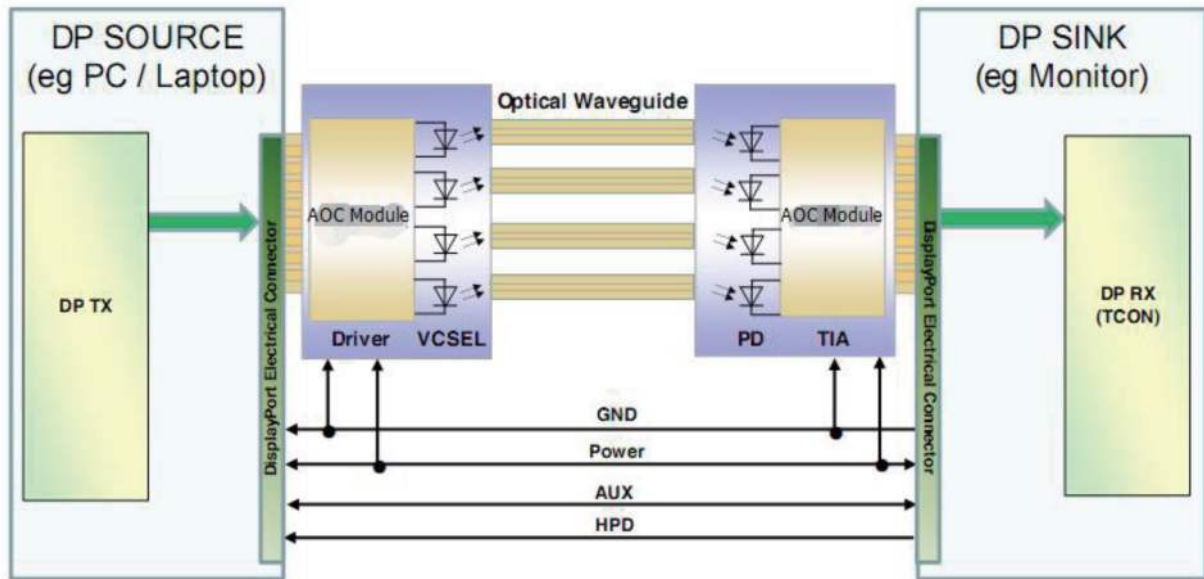
### 7. Environmental

Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +85°C
Operating / Storage Humidity	5% to 85% (non-condensing)

### 8. Power requirements

Power Source	Powered from DisplayPort source device
Power Consumption	<0.5 watt each end

# Scematic



## How to order

DP1401-xxxxxx <-> xxxxxx = total Length in mm

Partnumber	Description
DP1401-xxxxxx	xxxxxx = Total Length in mm
DP1401-010000	Total Length = 10.000 mm
DP1401-020000	Total Length = 20.000 mm
DP1401-030000	Total Length = 30.000 mm
DP1401-050000	Total Length = 40.000 mm

## Please contact us for customization

### Available Options

- Custom length
- Custom connector
- Custom label on Cable
- Custom label on Packing
- Fiber cable with steel arming
- Colour

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