

DP 1.4 Type C AOC Manual



Description

ELII DP 1.4 AOC is our new Audio/Video cable , HD signal transmission depending on optical fiber, not only its support length become much longer (above 100m) ,but also signal quality is much more stable , no EMI completely, especially can support 8.1Gbps bandwidth per channel . Support 8K, meets DP1.4 Standard, It is a mature & competitive solution in the high speed data transmission market . This optical fiber cable can be applied to computer with USB type C interface , Displays outdoor , LED signboards in streets / stadiums and Security System , that transfer audio video signal .

Key Features

1. Support 8K@60Hz , Supports HBR3, HDCP 1.4 / 2.2; very good compatibility;
2. Support DP1.4 standard, bandwidth can reach 8.1 Gbps per chanel;
3. Support length up to 100m max , length custom is available ;
4. Hybrid fiber and copper, much more slim and light ;
5. OD 4.8 mm, very flexible;
6. Low RFI / EMI profile for sensitive applications

Specifications

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-pin DisplayPort
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, 10 GHz, 850 nm
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 Cable Length	100 meters

6. Mechanical - Cable

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

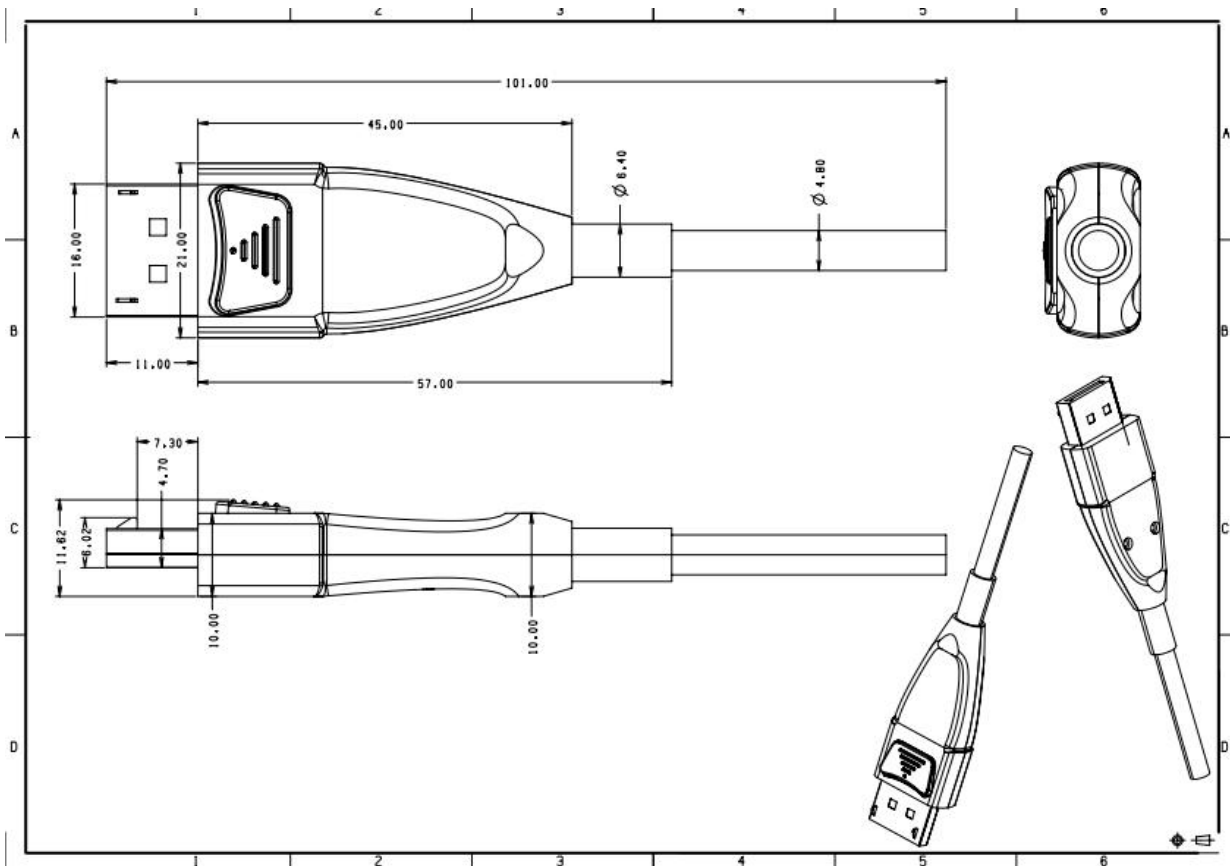
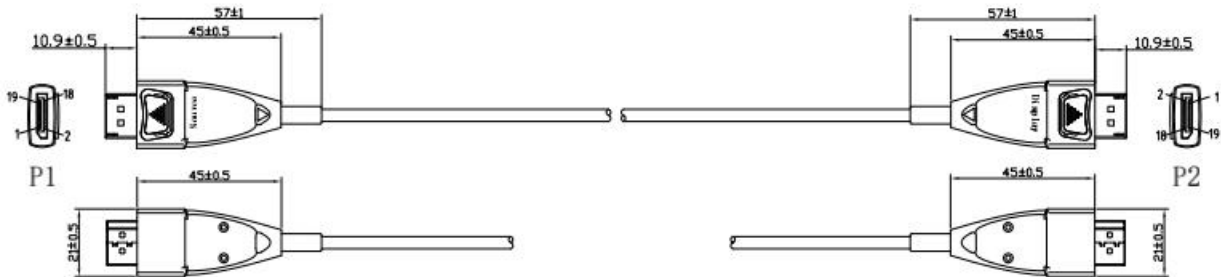
7. Environmental

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

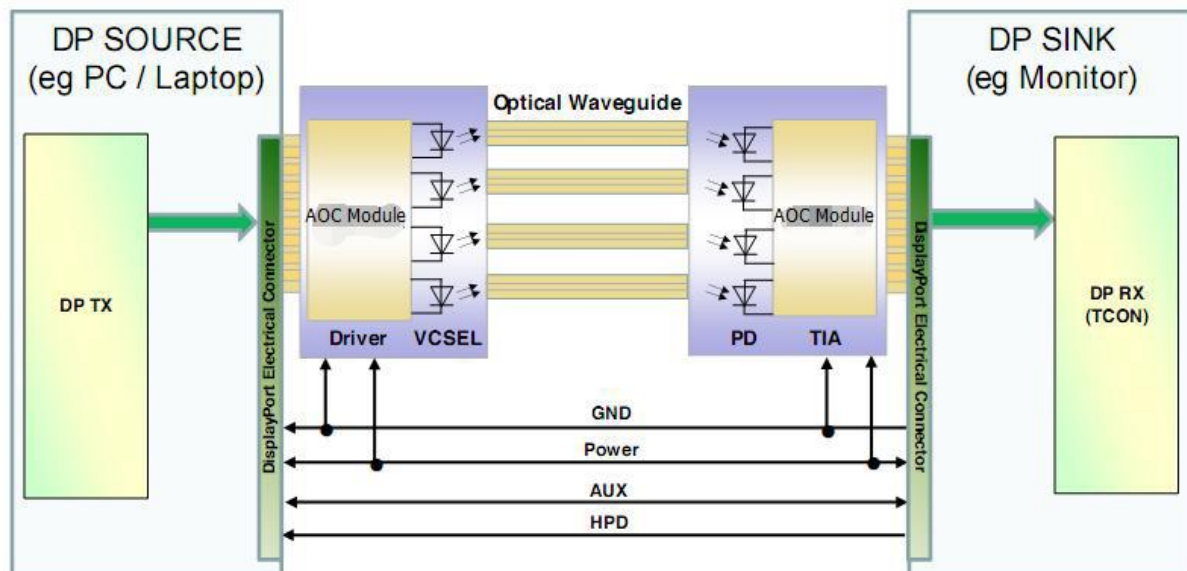
8. Power Requirements

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

Structure



DP 1.4 AOC Drawing



Applications

1. Digital Signage , Security systems ,Home Theater ;
2. Conference Room Video Equipment;
3. LED signboards in streets and in stadiums ; TV Broadcast Station;
4. Medical Imaging Equipment ,Airplane On-board Video System;
5. Blue-ray, 3D video, Projector, Set-up box, DVR, Game Consoles and Computer .