AOC-DP-Fxx

DP 1.4 8K AOC cable, DP to DP with detachable connectors
Datasheet v1.0

1. DESCRIPTION

The INFOBIT DP 1.4 AOC is a new generation of advanced Active Optical Cables (AOC) that employ cutting edge technology to deliver unprecedented resolution, performance and value. INFOBIT cables support DisplayPort 1.4 and provide a wide range of features in a compact, lightweight form- factor. They are fully HDCP 1.4 / 2.2 compliant and support signals with data rates up to 32.4 Gbps. (HBR3). These features enable the cables to support very high-resolution applications at 4K / 120Hz (4:4:4) with cable lengths up to 100 meters and 8K / 60Hz (4:4:4) up to 100 meters.

2. FEATURES

- Support 8K@60Hz, Supports HBR3, HDCP 1.4 / 2.2, good compatibility.
- Support DP1.4 standard, bandwidth can reach 8.1 Gbps per chanel.
- Support length up to 100m max, length custom is available.
- Hybrid fiber and copper, much more slim and light.
- OD 4.8 mm, very flexible.
- Low RFI / EMI profile for sensitive applications.
- External power supply is not request.

3. SPECIFICATIONS

Model	AOC-DP-Fxx
Name	DP 1.4 8K AOC cable, DP to DP with detachable connectors
Standards Compliance	DisplayPort 1.4/ HBR3, HDCP 1.4/2.2
Maximum Pixel Clock Frequency	810 MHz
Maximum Video Bit Rate	Up to 8.1 Gbps per lan, 32.4 Gbps total
Maximum Color Depth	48 bits
Maximum Supported Resolutions	8K 60Hz
Connector	20-pin DisplayPort
Power	No external power supply is required
AUX	Bi-directional communications for EDID, HDCP, Link Training, etc.
HDCP	HDCP 1.4 and HDCP 2.2
Optical Technology	4x Discrete Optical Channels, 10 GHz, 850 nm
Optical Transmitter	Tx module: 4x 850 nm Mulit-mode VCSELs
Optical Receiver	Rx Module: 4x GaAs Pin photo diodes
Fiber Cable Type	Hybrid cable, 4x fiber and 8x copper wires
Cable Jacket	PVC, Black

Maximum Length	100m
Maximum Tensile Load	300N
Minimum Bend Radius	48mm
Cable Outside Diameter	4.8mm
Operating Temperature	0-50 ℃
Storage Temperature	-20 to 85 ℃
Humidity	5-85% non-condensing
Power Source	Powered from DisplayPort source devices
Power Consumption	Max. 0.5W

4. ORDER CODES

AOC-DP-F05	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 5m
AOC-DP-F10	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 10m
AOC-DP-F15	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 15m
AOC-DP-F20	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 20m
AOC-DP-F30	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 30m
AOC-DP-F40	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 40m
AOC-DP-F50	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 50m
AOC-DP-F60	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 60m
AOC-DP-F70	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 70m
AOC-DP-F80	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 80m
AOC-DP-F90	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 90m
AOC-DP-F100	DP 1.4 8K AOC cable, DP to DP Fixed connectors, 100m