

Electronic Links International, Inc.

DVI Active Optical Cable

Data Sheet

Overview

Electronic Links DVI AOC not only greatly increases the distance traditional DVI signals can travel, but also reduces the overall cable weight.



ELII DVI active optical cables (AOC) generate high quality digital video signals for connections between video sources and display devices. Unprecedented and uncompromised image fidelity with per-pixel digital accuracy is provided.

DVI AOCs are compact hybrid cables comprising multi-mode glass fibers for the TMDS signals and copper wires for the low frequency EDID signals.

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Specifications

Parameter	Min.	Typ.	Max.	unit
Data rate/ch ^{Note 1}		1.65		Gb/s
Intra-pair skew ^{Note 2}			151	ps
Inter-pair skew ^{Note 2}			2.42	ns
Differential impedance ^{Note 3}	80	100	120	W
Supply voltage	4.5	5	5.5	V
Supply current		170	200	mA
Cable diameter			4.2	mm

Note:

1. Meet the receiver eye diagram mask at 1.65Gb/s.
2. For 1.65Gb/s, intra-pair skew $0.25T_{bit}$, inter-pair skew $0.4T_{pixel}$, where $T_{bit}=1/1.65e9$, $T_{pixel}=1/165e6$.
3. Including connector.

Key Features:

- (1) Up to 100m (330ft) DVI extender.
- (2) A cable supporting 1920 x 1080 resolution (4.95Gb/s @165MHz) without the use of equalizers.
- (3) Smaller, thinner and lighter.
- (4) Low power consumption.
- (5) Plug (single link) and play.
- (6) CE/FCC compliant.

Application

- (1) Digital signage
- (2) Surveillance
- (3) Projectors and displays for conference room, auditorium, medical imaging and stadium

Installation



Order Information

ELII-DVIC- A A X m X X
 (1) (2) (3) (4) (5)

