



CLEARLINKS OR™

THE CLEAR CHOICE FOR MEDICAL

▶ Product Overview

The ClearLinks OR™ DCE-0503 DVI extender series increases transmission distances of DVI signals up to 700m (2,300 ft). A transmitter and receiver pair connect via a 4 channel LC multi-mode fiber optic cable to transmit the DVI signals. By using fiber optic cabling instead of copper wire, DVI signal transmission distance is greatly increased with the added benefit of lower cost.

▶ Features

- The DCE-0503 is the first DVI extender to have **fiber channel status indicators**. No more wasted time spent checking for broken or improper fiber connections. LED's on each channel of the RX module illuminate on sensing a valid fiber connection.
- **Pre-programmed** and **self learning** versions. 22 pre-programmed graphic and video resolutions on the DCE-0503V1.1. Self learning feature on the DCE-0503V3.0 allows EDID information to be read directly from any monitor to support non-standard resolutions. Graphic resolutions up to 1920x1200 are supported including NTSC & PAL HDTV video resolutions up to 1080p 60Hz.
- **Power indicators** on both the TX & RX modules inform you when an AC adaptor is necessary. Adaptors are normally required for the RX module.

▶ Applications

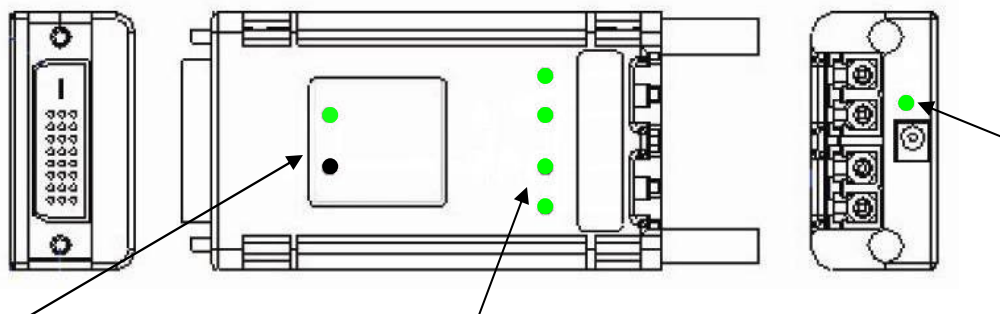
Optical DVI extenders provide high quality, high resolution images over long distances with reduced costs. The DCE-0503 is immune to electrical interference and produces negligible RFI/EMI emissions so it will not interfere with sensitive equipment. UL/cUL/EN60601-1-2 certification makes it perfect for OR integration as well as medical imaging, military, airport, security, digital signage, and AV applications.

Optical DVI Extender

DCE-0503V1.1 & DCE-0503V3.0



Shown with ClearLinks™ 3.1mm Micro 10GIG SX+ Fiber Optic Cable



EDID Learning Switch & Status Indicator (TX V3.0 Module Only)

Fiber Channel Connection LED Indicators (RX module only)

LED Power Indicator (TX & RX Modules)



Note: In a continuing effort to improve our product, specifications are subject to change without notice

17110 Armstrong Ave., Irvine, CA 92614 • Phone 949-231-5000 • Fax 949-231-5019

www.cptechusa.com

Optical DVI Extender

► Graphic Resolutions Supported

1920x1200; 1920x1080; 1680x1050; 1600x1200;
1600x900; 1440x900; 1366x768; 1280x1024; 1280x960;
1280x720; 1152x864; 1150x900; 1024x768; 800x600; 640x480

► Video Resolutions Supported

1080p; 1080i; 720p; 576p; 576i; 480p; 480i

Specifications

Operation

Optical Interface: 4 Channel VCSEL; 850nm@-6db
Maximum Length: 700m @ XGA (50/125 MMF)
500m @ XGA (62.5/125 MMF)

Maximum Resolution: 1920x1200 / 1080p 60Hz
(500m with 50/125 MMF)

Data Rate: 1.65Gbps per Channel

EDID Support: Pseudo on TX V2.2
Self Learning on TX V3.0

MTBF: >30,000 Hours @ 70°C

Operating Voltage: 5VDC
Supply Current: 180mA ± 30 (TX module)
280mA ± 30 (RX module)

Warranty 2 Years

Physical

Operating Temperature: 0° C to +45° C
Storage Temperature: -20° C to +75° C
Humidity: 0 to 95% RH, non-condensing
Dimensions: 40mm W x 74mm D x 19mm H
Interface: DVI-D male single link plug
Fiber Connector: LC Receptacle
Labeling: TX - ROBG / RX - GBOR

Adaptor

Input: 100~240VAC / 0.2A
Output: 5VDC / 1.0A
DC Jack: Inside 5V / Outside Ground
Plug Adaptors: Optional: Europe / UK / Australia
Regulatory: UL/EN60601

Safety, EMI & Environmental

UL/cUL/EN60601-1
UL/cUL/EN60601-1-2
(UL File # E332331)
CAN/CSA-C22.2 No. 601.1
FCC Part 15 Class B
Class 1 laser eye safety
FDA/CDRH & EN 60825-1
RoHS compliant

Ordering Information

- DCE-0503V1.1 Pre-Programmed Module Set
Set Contains (1) TX V2.2; (1) RX V3.0; (2) 60601 Power Adaptors; (1) DVI-D M/F Extension Cable 11.7" (30cm); (1) User Manual
- DCE-0503V3.0 Self Learning Module Set
Set Contains (1) TX V3.0; (1) RX V3.0; (2) 60601 Power Adaptors; (1) DVI-D M/F Extension Cable 11.7" (30cm); (1) User Manual
- DTE-0502V2.2 TX Module; Pre-Programmed Transmitter
Contains (1) TX V2.2 Module; (1) 60601 Power Adaptor; (1) User Manual
- DTE-0502V3.0 TX Module; Self Learning Transmitter
Contains (1) TX V3.0 Module; (1) 60601 Power Adaptor; (1) User Manual
- DRE-0502V3.0 RX Module
Contains (1) RX V3.0 Module; (1) 60601 Power Adaptor; (1) User Manual
- DRE-0600V3.0 OEM RX Module
- LC2+4DXXXF2S2
3.1mm; 10GIG; SX+; UL Listed: Plenum Fiber Optic Cable



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