

# DATA SHEET

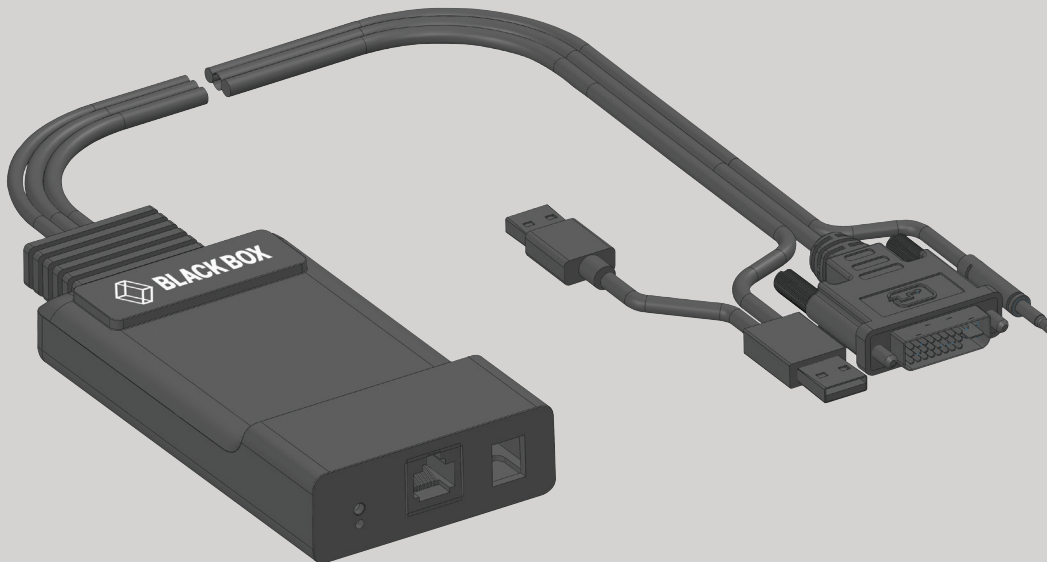
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EMD200DV-T

# EMERALD ZEROU DVI TRANSMITTER

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24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT [BLACKBOX.COM](http://BLACKBOX.COM)



# OVERVIEW

## EMERALD ZEROU DVI TRANSMITTER (EMD200DV-T) DATA SHEET

### INTRODUCTION

The Emerald ZeroU DVI Transmitter (EMD200DV-T) works with the Emerald SE Receiver (EMD2000SE-R) to provide users with a seamless desktop experience anywhere on a TCP/IP network, while allowing the actual hardware to be securely housed in a corporate data center or in the cloud. A little bigger than a cell phone, the Emerald ZeroU DVI Transmitter is a smaller form factor transmitter that fits in tight spaces.

The Emerald system enables the same high fidelity experience of a desktop PC even for media-rich applications, for example, watching videos, photo editing with Photoshop or 3D design with AutoCAD. The remote desktops may be hosted on a physical PC/workstation or may be a virtual desktop hosted on a private server or in the cloud. The Emerald system provides its users with Receivers that communicate with target computer nodes (whether physical PC or virtual desktop) over a standard TCP/IP network. Physical PCs/Workstations/Servers have an Emerald ZeroU Transmitter unit physically connected to provide communication over the TCP/IP network. The performance of Emerald allows them to be deployed on standard corporate networks and even across Wide-Area-Networks (WANs).

Desktop users can access remote keyboard, mouse, video, audio, USB mass storage devices, headsets and other USB devices from the Receiver unit to the remote PC/workstations or Virtual Desktop via the Emerald system.

NOTE: The Emerald ZeroU DVI Transmitter supports HID USB devices only.

NOTE: References to the Emerald system in this document refer to both Receiver (EMD2000SE-R) and Transmitter (EMD200DV-T).

### FEATURES

- **SMALL FORM FACTOR USES ZERO RACKSPACE—YOU SAVE MONEY WHEN RACK SPACE IS EXPENSIVE**
- **VISUALLY LOSSLESS FULL HD DVI VIDEO UP TO 1920 X 1200**
- **LOW IP BANDWIDTH REQUIREMENTS WITH LESS THAN 40 MBPS REQUIRED FOR 1080P VIDEO**
- **SHARE MODE ALLOWS MULTIPLE RECEIVERS TO SIMULTANEOUSLY USE ONE SOURCE**
- **CAN BE USED AS AN EXTENDER WHEN COMBINED WITH EMERALD SE RECEIVER**
- **FULLY MANAGEABLE VIA BOXILLA AS PART OF A COMPLETE EMERALD MATRIX**
- **HIGH RELIABILITY AND HIGHLY SECURE**
- **EASY DEPLOYMENT**
- **POWERED OVER USB OR VIA AN OPTIONAL SEPARATE POWER SUPPLY**

## WHAT'S INCLUDED

### EMERALD ZEROU DVI TRANSMITTER (EMD200DV-T) AND EMERALD SE RECEIVER (EMD2000SE-R)

TRANSMITTER



RECEIVER FRONT VIEW



RECEIVER BACK VIEW



### WHAT'S INCLUDED WITH THE TRANSMITTER (EMD200DV-T)

- (1) EMERALD ZEROU TRANSMITTER

### WHAT'S INCLUDED WITH THE RECEIVER (EMD2000SE-R)

- (1) EMERALD SE RECEIVER, SINGLE-HEAD
- (1) 5 VDC POWER SUPPLY
- (1) US POWER CORD

NOTE: Emerald ZeroU Transmitter (EMD2000DV-T) and Emerald SE Receiver (EMD2000SE-R) must be purchased separately.

# SPECIFICATIONS

SPECIFICATIONS FOR EMERALD ZEROU DVI TRANSMITTER AND SE RECEIVER, SINGLE-HEAD (EMD200DV-T AND EMD2000SE-R)	
<b>APPROVALS</b>	
<b>UNIT</b>	FCC, CE, RoHS, WEEE
<b>PHYSICAL</b>	
<b>LED INTERFACE</b>	(1) Power LED (green); (1) RJ-45 Speed LED (green, located on top left of RJ-45 connector): Blinks three times when the network connection is 1000 Mbps, Blinks two times when network connection is 100 Mbps, Blinks once when the network connection is 10 Mbps, Not blinking: No Link to network; (1) Activity LED (green, located on top right of RJ-45 connector): Solid green: Link up, Blinking: Activity on the link, OFF: No link
<b>MAXIMUM DISTANCE FROM CPU TO TRANSMITTER</b>	EMD200DV-T: 12" (30.48 cm) via connected cable harness
<b>MAXIMUM DISTANCE BETWEEN TRANSMITTER AND RECEIVER</b>	328 ft. (100 m), use a network switch to get farther distances
<b>OPERATING SYSTEM SUPPORT</b>	Microsoft Windows® Vista, XP, Windows 7, Windows 8, Windows 10, Server 2003, Server 2008, Server 2012, Linux®, Mac OS
<b>CONNECTORS</b>	EMD200DV-T: (1) DVI input, (2) USB Type A female, (1) RJ-45 network, (1) 3.5 mm audio for speakers (only on 12" version), (1) 2.5 mm barrel for power; NOTE: The ZeroU Transmitter can be powered via (2) USB Type A connectors or via an optional DC power adapter; EMD2000SE-R: (1) DVI output, (4) USB Type A female, (1) RJ-45 network, (1) DB9 serial, (2) 3.5 mm audio for SPK and MIC, (1) 2.5 mm barrel for power
<b>DIMENSIONS</b>	EMD200DV-T: 0.98" H x 2.78" W x 6.12" D (2.5 x 7.07 x 15.55 cm); EMD2000SE-R: 1.15"H x 6.2" W, 4.2" D (2.92 x 15.75 x 10.67 cm)
<b>OPERATION</b>	
<b>DEFAULT IP ADDRESS</b>	EMD200DV-T: 192.168.1.22; EMD2000SE-R: 192.168.1.21
<b>ENCRYPTION</b>	Secure Sockets Layer (SSL) over TCP/IP, 128-bit between TX and RX, user set between RX and Hyper-V
<b>DEFAULT USERNAME</b>	admin
<b>DEFAULT PASSWORD</b>	The password is blank by default
<b>DDC SUPPORT</b>	Built-in/clone of remote
<b>POWER</b>	
<b>POWER SOURCE</b>	Via USB or an optional 5-VDC power adapter
<b>INPUT VOLTAGE</b>	5 VDC
<b>ENVIRONMENTAL</b>	
<b>OPERATING TEMPERATURE</b>	32 to 104° F (0 to 40° C)
<b>STORAGE TEMPERATURE</b>	-4 to +140° F (-20 to 60° C)
<b>OPERATING HUMIDITY</b>	5 to 95%, noncondensing



