Wiring Information and Coding

Table 2: RJ-45 pinning and color coding.

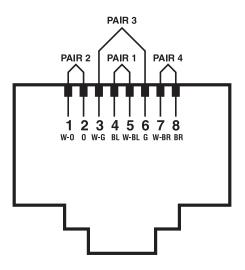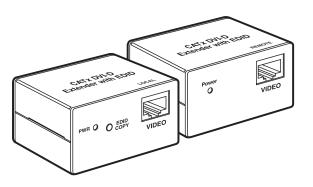| Conductor Identification	RJ-45 Pin Assignment	Color Code for Conductor
Pair 1	5/4	White-Blue/Blue
Pair 2	1/2	White-Orange/ Orange
Pair 3	3/6	White-Green/ Green
Pair 4	7/8	White-Brown/ Brown

CATx DVI-D Extender with EDID

Figure 6: Jack positions.

CUSTOMER SUPPORT INFORMATION

Order **toll-free** in the U.S.: Call **877-877-BBOX** (outside U.S. call **724-746-5500**)
FREE technical support 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
Mailing address: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: **www.blackbox.com** • E-mail: **info@blackbox.com**

Introduction

The CATx DVI-D Extender with EDID extends the video signal of a DVI-D device up to 50 meters over CATx cable. In addition, the local unit reads and remembers your monitor's EDID. Simply push the "EDID COPY" button.

The DVI Extender is perfect for data centers, help desks, and test bench facilities.

Figure 1. DVI-D connector pinning.

Specifications

Cable Distance (Maximum): Local unit: 98.4 ft. (30 m);
   Remote unit: 164 ft. (50 m)
Resolution (Maximum): Local unit: 1600 x 1200 at 60 Hz;
   Remote unit: 1280 x 1024 at 60 Hz
Connectors: Input: Local unit: (1) DVI F;
      Remote unit: (1) RJ-45;
   Output: Local unit: (1) RJ-45;
      Remote unit: (1) DVI F
Power: (2) DC 5-V 1-A adapters (included)
Size: 1.5"H x 2"W x 2.6"D (3.8 x 5.2 x 6.7 cm)
Weight: 0.3 lb. (0.1 kg)

Installation

1. Turn off the PC and monitor.
2. Plug one 5-V power supply into the local unit and one into the remote unit.
3. Turn on the monitor and connect the monitor to the "DVI in" port on the local unit using DVI cable.
4. Push the EDID COPY button. The EDID read/write is complete after the LED flashes three times.
5. Remove the monitor cable from the local unit and connect it to the DVI Out port on the remote unit.
6. Connect the local unit to the DVI source.
7. Connect the CATx cable between the local unit's CATx port and the remote unit's CATx port.
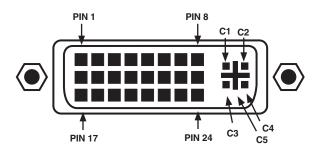8. Turn on the PC.

Table 1. Input/output signals.

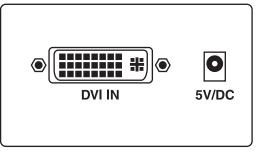| Pin #	Signal	Pin #	Signal
1	TMDS Data 2-	16	Hot Plug Detect
2	TMDSData 2+	17	TMDS Data 0-
3	TMDS Data 2/4 Shield	18	TMDS Data 0+
4	TMDS Data 4-	19	TMDS Data 0/5 Shield
5	TMDS Data 4+	20	TMDS Data 5-
6	DDC Clock	21	TMDS Data 5+
7	DDC Data	22	TMDS Clock Shield
8	Analog Vertical Sync	23	TMDS Clock+
9	TMDS Data 1-	24	TMDS Clock-
10	TMDS Data 1+		
11	TMDS Data 1/3 Shield	C1	Analog Red
12	TMDS Data 3-	C2	Analog Green
13	TMDS Data 3+	C3	Analog Blue
14	+5V Power	C4	Analog Horizontal Sync
15	GND	C5	Analog Ground

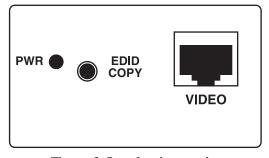**Figure 2. Local unit front view: DVI In port, power jack**

Figure 3. Local unit rear view: Power LED, EDID COPY button, CAT5 port
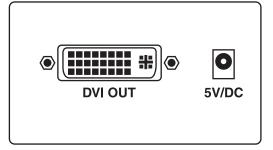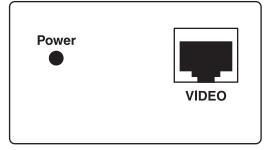

Figure 4. Remote unit front view: DVI Out port, power jack

Figure 5. Remote unit rear view: Power LED, CAT5 port