DIGI-VGASD2-T8 Installation Guide

VGA, Audio, & RS232/IR over Twisted Pair Transmitter with Multiple Outputs

Rev. 120821

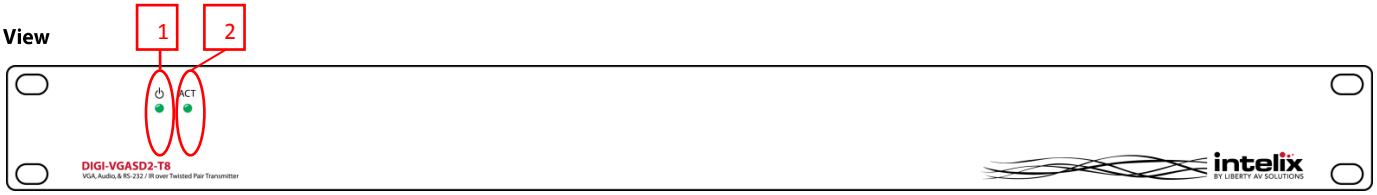
The Intelix DIGI-VGASD2-T8 transmits computer video, stereo audio, and control signals to eight remote destinations over a single twisted pair cable, such as Cat 5e or Cat 6.

The DIGI-VGASD2-T8 features local computer video and stereo audio output.

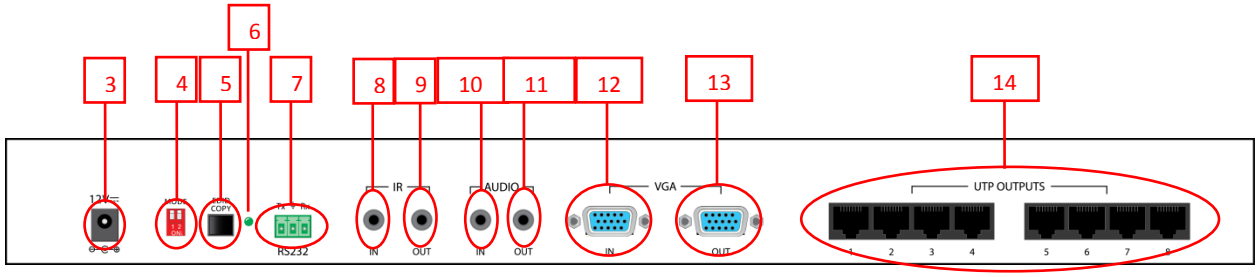
The DIGI-VGASD2-T8 features built in EDID tables that emulate common resolutions (1024x768 and 1280x800). The DIGI-VGASD2-T8 features an EDID copy function that will copy all EDID information from the destination device. The DIGI-VGASD2-T8 will retain the copied EDID information if power is disconnected.

The DIGI-VGASD2-T8 features up to 1920x1200 computer video performance and high-fidelity 20Hz to 20kHz audio performance extension up to 350 feet. The DIGI-VGASD2-T8 features bi-directional IR and RS232 on Output 1, and uni-directional (transmitter to receiver) IR and RS232 on all other outputs.

Front View



Rear View



Connector Descriptions:

1. Power LED – Lit when unit is ON.
2. ACT LED – Will flash when IR or RS232 data is passing through the system
3. Power inlet – Connect the (included) 12vDC, 2A power supply.
4. EDID Mode – Use a small screwdriver to adjust the DIP switches to the desired EDID mode
5. EDID Copy Button – This activates the EDID copy operation when EDID Mode is set to “COPY”
6. EDID Status – This LED will flash when EDID is being copied successfully.
7. RS232 Pass-through – This connection allows RS232 commands to be passed through the extender connected to [Output 1]. Connect a control system to either end, and control the remote source or display.
8. IR IN – Connect a VGASD2-EYE (not included) to this port. The IR eye will send IR information to the DIGI-VGASD2-R for the purpose of controlling the display with the OEM remote.
9. IR OUT – Connect a VGASD2-EMT (not included) to this port. IR information sent from the DIGI-VGASD2-R connected to [Output 1] will be emitted for the purpose of controlling the source with the OEM remote (place the emitter over the source’s IR window).
10. Stereo Audio Input – Connect a line level source. Audio will be present at the DIGI-VGASD2-R audio outs. Video signal is not required for audio to pass.
11. Stereo Audio Output – Connect to desktop speakers. This is a “Loop Output” which receives signal from the transmitter’s audio input.
12. VGA Input – Connect to laptop or other VGA source.
13. VGA Output – Connect to your PC Monitor This is a “Loop Output” which receives signal from the transmitter’s VGA input.
14. Twisted Pair Outputs – Connect these to (8) DIGI-VGASD2-R using Cat5e (or equivalent) cable.

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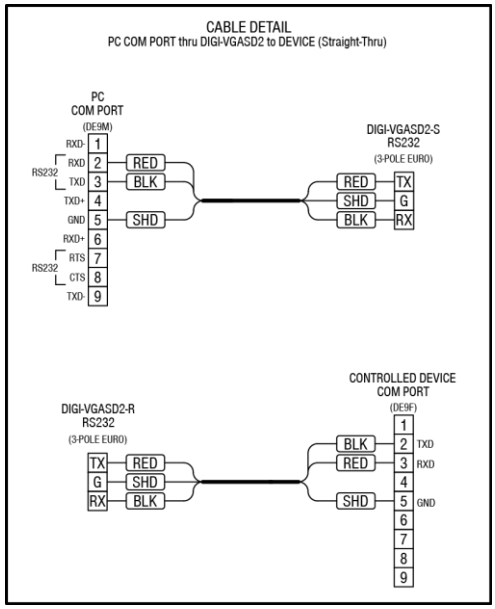
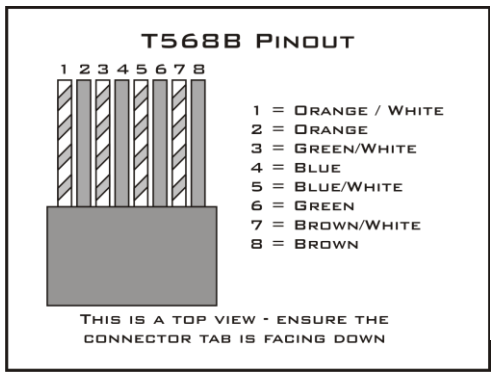
Installation Instructions:

1. Install units securely using attached mounting ears.
2. Set EDID Mode DIP switches to desired mode (target resolution).
3. Connect twisted pair cable between the transmitter and the receiver (DIGI-VGASD2-R). Ensure T568B straight-thru wiring.
4. Connect VGA, audio, and control cables between the display and the receiver (DIGI-VGASD2-R). Connect ONLY IR *or* RS232.
5. Connect VGA, audio, and control cables between the source and the transmitter (DIGI-VGASD2-T8). Connect ONLY IR *or* RS232.
6. Connect the included power supplies to the transmitter and receiver.
7. Power on attached audio/video devices.
8. Adjust trim pots on the receiver until color levels in the image are equal and any video "streaking" is not visible in the image. Start with Green, then Red, then Blue.

EDID Settings		
DIP Settings	**Mode**	**Description**
0/0 (Down, Down)	EDID Run Mode (Disable Copy)	Set to this mode after performing a successful copy. This will prevent unwanted EDID overwrite.
0/1 (Down, Up)	WXGA Preset Mode	A preset EDID of 1280x800 will be recalled
1/0 (Up, Down)	EDID Copy Mode	Connect the transmitter's VGA loop out to the display you wish to copy, apply power to the transmitter, and press the copy button.
1/1 (Up, Up)	XGA Preset Mode	A preset EDID of 1024x768 will be recalled
***Note: The unit must be off during DIP switch changes. Be sure to disconnect the power adapter, adjust the switches, then reapply power.**		



RS232 Wiring: Consult the manual of the control devices to determine which pins the TX/RX signals are carried on. Be sure to ALWAYS connect TX to RX and RX to TX.



Twisted Pair Wiring - Use T568B wiring for Cat5e/6 connection between send and receive units.

Troubleshooting tips:

1. **Noisy Audio – Increase the source volume**
2. **Horizontal scrolling video bars – Ground loop problem - try lifting or grounding the transmitter or receiver (VGA capture nut is a ground)**
3. **No video – Perform EDID copy on transmitter, check Cat5 cable, check source settings (is it on?)**

Important notice:

- **Do not attempt to disassemble or alter the extender housing. There are no user-serviceable parts inside the unit. Doing so will void your warranty.**
- **To minimize the possibility of equipment damage from electrostatic discharge (ESD), all source and destination equipment must be powered off during installation.**
- **Do not connect the extender to a telecommunication outlet wired to unrelated equipment. Doing so may damage the unit or any connected equipment. Ensure all connected twisted pair cabling is straight-through (point-to-point).**
- **Allow proper ventilation to reduce the risk of thermal failure.**

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