UT260-104 UNDER TABLE HDBT RECEIVER   User's Guide

Welcome!

Everyone at Altinex greatly appreciates your purchase of the UT260-104. We are confident that you will find it to be reliable and easy to use. If you need support, please do not hesitate to call us at 714-990-2300.

At Altinex, we are committed to developing unique and state of the art Signal Management Solutions® for demanding audiovisual installations. Welcome to the Altinex family of satisfied customers around the world!

1. Precautions and Safety Warnings

- These instructions are to ensure the reliable operation of your UT260-104 and to prevent fire and shock hazards. Please read them carefully and heed all warnings.

1.1 General

- Qualified Altinex service personnel or their authorized representatives must perform all service.

1.2 Installation Precautions

- To prevent fire or shock, do not expose this unit to water or moisture. Do not place in direct sunlight, near heaters or heat-radiating appliances, or near liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.

- Handle carefully; dropping or jarring can cause damage.

- Do not pull any cables that are attached to the UT260-104.

1.3 Cleaning

- Clean with a dry cloth only. Never use strong detergents or solvents such as alcohol or thinner.

1.4 FCC Notice

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 2 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions found herein, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

- Any changes or modifications to the unit not expressly approved by Altinex, Inc. could void the user's authority to operate the equipment.

2. Installation Procedures

Note: Download and read the entire online manual to become familiar with the UT260-104 and for detailed information. See the top label of the UT260-104 for control details, or refer to the complete online manual.

Step 1:   The enclosure may be mounted to furniture or a wall using the brackets included, or it can be attached to the back of a display using 2-sided tape or hook and latch tape.

Remove side screws. Align bracket and attach bracket using same screws.

Step 2:   In order to use the brackets included, first remove the two screws on each side of the unit. Use these screws to mount the brackets to the UT260-104.

Step 3.   Mount the UT260-104 to the desired surface using the appropriate fasteners; not included.

Purchase the appropriate fastener to attach to a wall or furniture.

Step 4.   Connect the CAT-5e/6/7 input cable from the UT260-103 Transmitter.

Step 5.   Connect the HDMI output to the UT260-104 directly to a TV or other display.

Step 6.   Apply power to the unit using the power adapter provided, or the power can be supplied by the transmitted if POE is capable on the network. Both the power adapter and POE may be connected at the same time.

Step 7.   The UT260-104 is ready for use. If the transmitter is active, the video is present on the UT260-104 output.

Step 8.   The UT260-104 can pass RS-232 and IR signals to and from the transmitter to control displays or sources. The label on the top of the unit shows the connection details, or you can refer to the online manual. The IR emitter and receiver may be purchased separately; emitter AC301-114 and receiver AC301-116.

3. Warranty and Return Policies

Please visit the Altinex website at www.altinex.com for details on warranty and return policies. In the case of a unit needing repair, please complete a RMA (return material authorization) form located on the bottom left hand corner of the Altinex homepage. Once completed, please email the form to support@altinex.com.

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4. Technical Specifications

Specifications are subject to change due to design improvements. Please see www.altinex.com for up to date information.

Features/Description	UT260-104
Input Connectors	
HDMI Over HDBT	RJ-45 F (1)
Power	DC Jack 2.5 mm F (1)
Output Connectors	
Digital Video + Audio	HDMI F, Type A (1)
Control	
RS232/Input Select	Term. Blk. 3 position (1)
IR Output (to emitter)	3.5 mm F (1)
IR Input (from sensor)	3.5 mm F (1)
Compatibility	
Digital Signal types	HDMI 1.4,3D, 4k 30Hz DP 1.2
Signal resolution	Up to 4k x 2k 30 Hz
VGA	VESA up to 1920x1080
Accessories Included	
Power Supply	24V/1A Power Adapter (1)
Mounting Brackets	Right Angle (2)
Terminal Blocks	3 position, 3.5 mm (1)
Optional Accessories	
IR Emitter	AC301-114
IR Receiver	AC301-116

Table 1. UT260-104 General

Mechanical	UT260-104
Material	Steel
Color	Black
Height	0.98 in. (25 mm)
Width	2.95 in. (75 mm)
Length	4.37 in. (111 mm)
Weight	1.3 lb. (0.6 kg)
T° Operating	10°C-40°C
Humidity	60% RH non-condensing
MTBF (calc.)	38,000 hrs.

Table 2. UT260-104 Mechanical

Electrical	UT260-104
Video Input Signals	
Digital Video + Audio on HDBT	Altinex Standard
Output Signals	
Digital Video + Audio	HDMI Standard
Power	
+24VDC	500 mA, 24 W

Table 3. UT260-104 Electrical

HDMI, the HDMI Logo, and High Definition Multimedia Interfaces are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

5. About Your UT260-104

- Receive Audio/Video/Control up to 70m over one Cat 6/Cat 6A/Cat 7 cable
- Support VGA with WUXGA resolution, HDMI 4k x 2K, DP 1.2 with 4K@30Hz
- HDCP 1.4 compliant
- IR and RS-232 pass through
- Remote power from HDBT transmitter
- Status LED on front

The UT260-104 HDBT Receiver is a high performance HDBT receiver with HDMI output. In addition to video, the UT260-104 also allows both IR and RS232 control signals from the transmitter to the receiver, or from the receiver to the transmitter. The RS232 port is independently configurable allowing different baud rates than the transmitter.

The TX+RX system supports manual or auto-switching modes, pass-through IR or RS232 controls, and custom audio selection. Auto-switching automatically switches to the newest input. Manual control allows the switch to be controlled from user interface momentary switches, RS232 protocols, or via the built-in web server. A special feature gives the user the ability to select between using the embedded audio (HDMI/DP) or the external audio from the 3.5mm audio input port. The external audio is automatically selected with the VGA input, but can also be used to override the HDMI or DP embedded audio.

A power supply is included with the UT260-104, or the UT260-104 receiver can be power by the UT260-103 transmitter when used with a direct connection between the transmitter and receiver.

LED STATUS	ACT	HDMI	HDBT
SOLID		Signal present	HDBT+video
BLINKING	Normal activity	no HDCP	HDBT only
OFF			No video
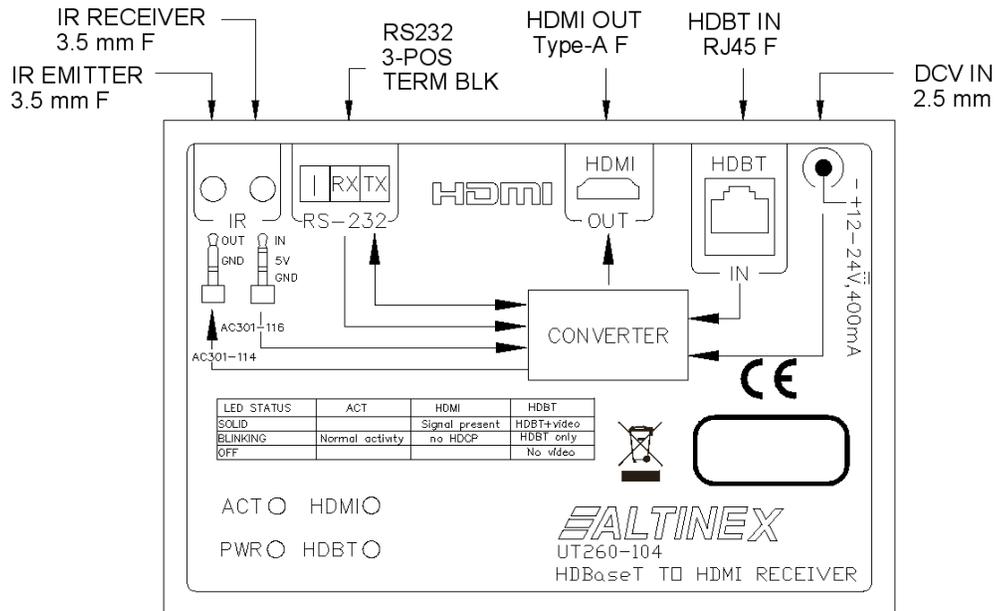
6. Application Diagrams

Diagram 1: Typical Setup

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Diagram 2: Dimensions

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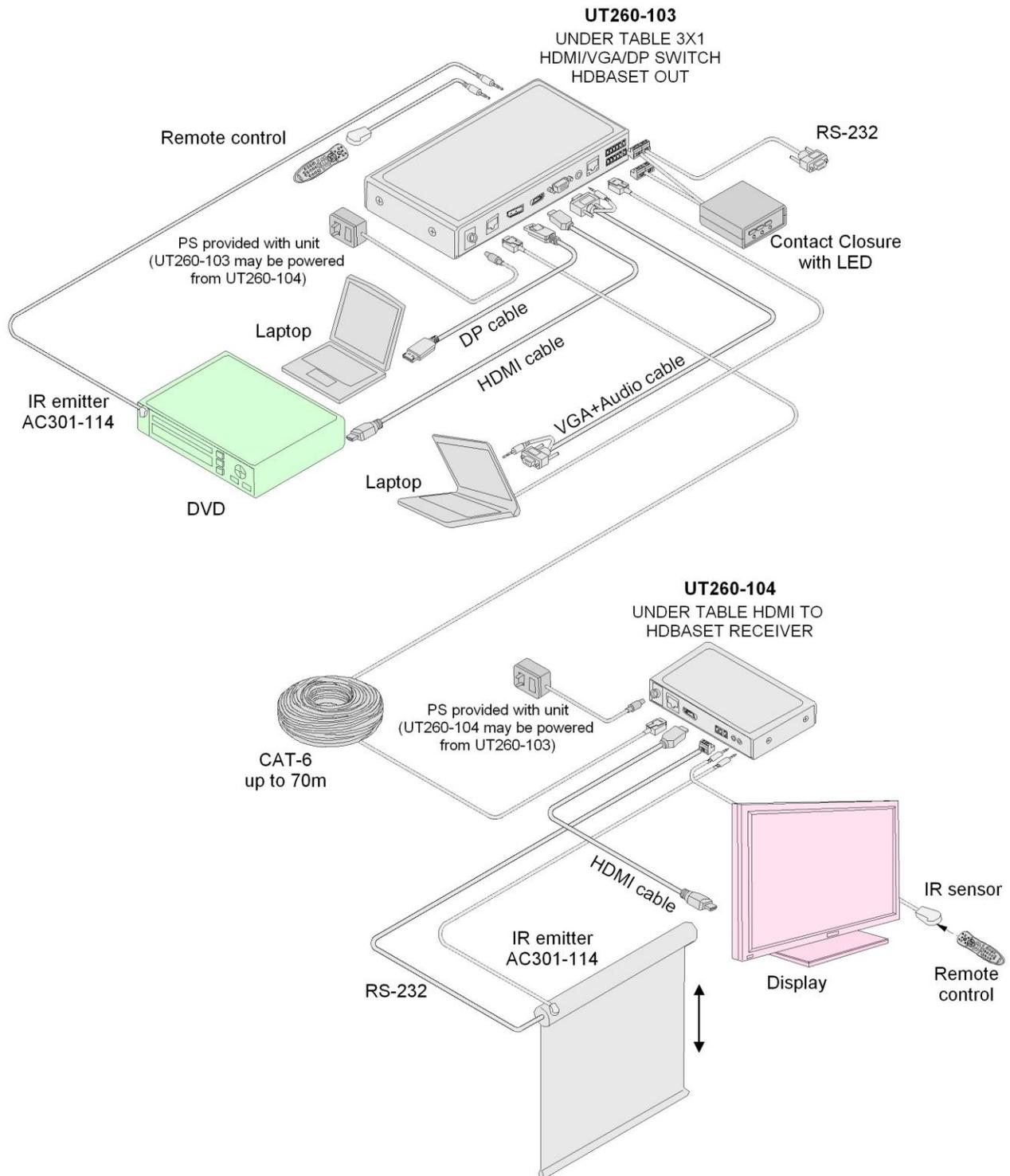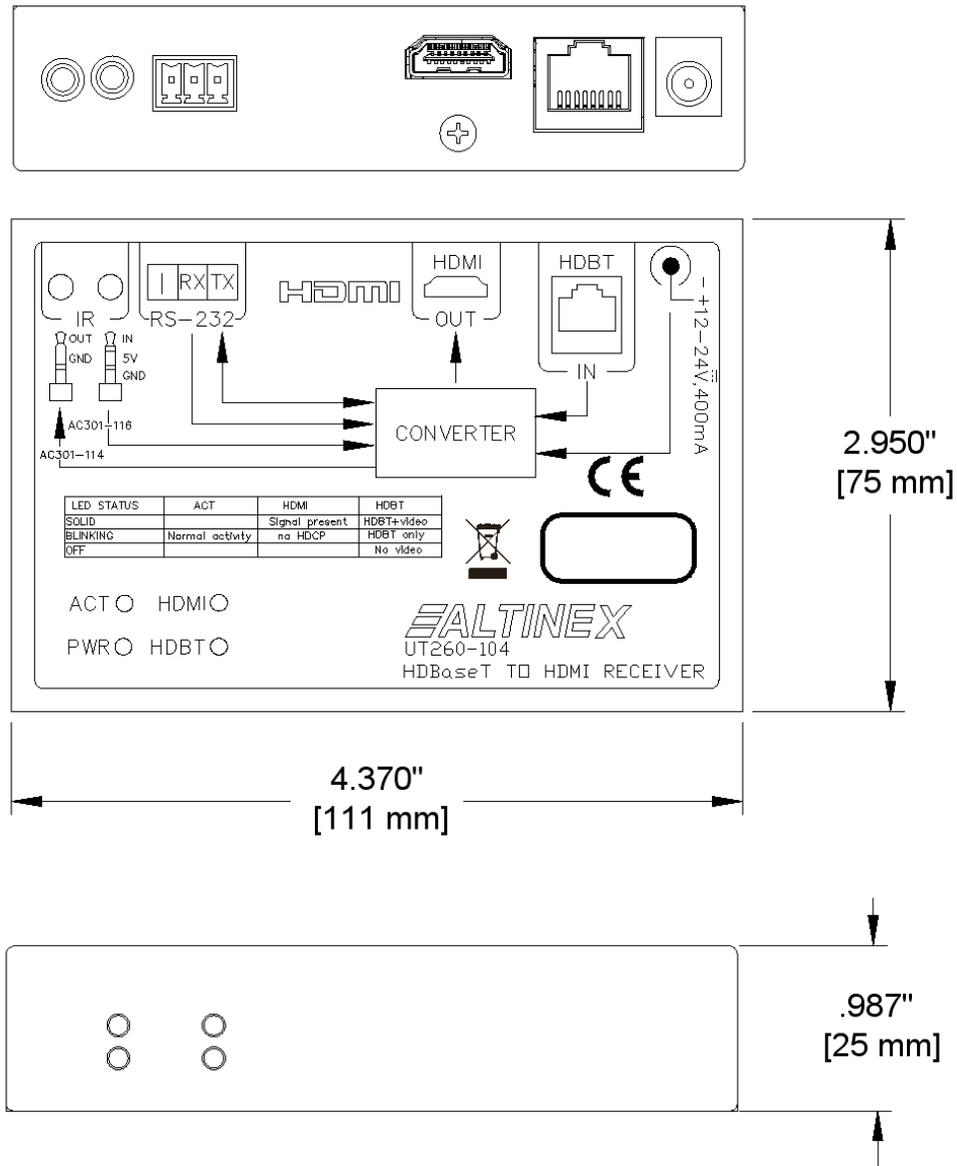
Diagram 3: RS232 Pass-Through

Terminal Block - Rear View

RS-232 Pass-Through

Tx Rx G

DB9 pin 2, PC Receive ———

DB9 pin 5, Ground

DB9 pin 3, PC Transmit
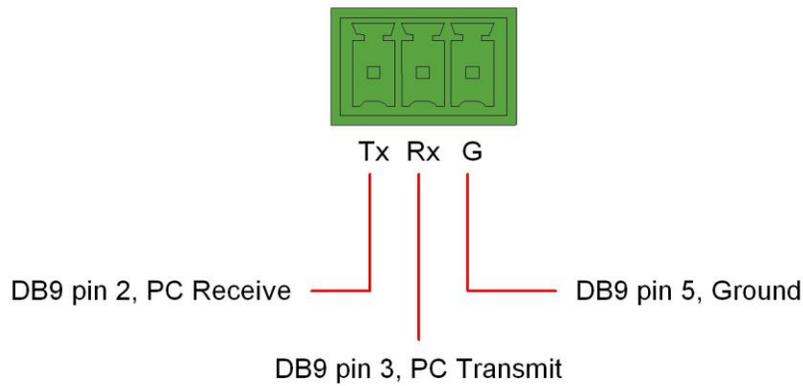
Terminal Block Connector
(provided with UT260-104)

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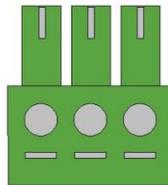
7. Operation

Users connect their device (phone, laptop, etc.) to one of the input connectors/cables above the table surface connected to the transmitter. Their video input is automatically converted and routed to the UT260-104 Receiver where the HDMI output is displayed on the external display. Auto-switch is the default configuration, but may also be disabled for use with contact closures or a control system.

7.2 LED Indicators

The front panel has four LEDs representing the status of the TX/RX system.

7.2.1 Power

The PWR LED is on and solid red when power is present.

7.2.2 Activity

The ACT LED is blinking during normal operation. This shows activity between the transmitter and receiver.

7.2.3 HDMI

The HDMI LED is on and solid when a signal is present and the display is connected. The display must be powered and not in standby.

7.2.4 HDBT

The HDBT LED is blinking when connecting with the transmitter and solid on during normal operation.

7.4 Pass-through Controls

The UT260-104 provides pass-through controls for IR and/or RS232. Both can be used, but data cannot be simultaneous.

7.4.1 RS232 Pass-through

RS232 data can be passed from the transmitter to the receiver and/or from the receiver to the transmitter. The RS232 ports on each end can be configured with independent baud rates.

The default is 115200 baud. In order to change the baud rate, use RS232, TCP, or web server options from the UT106-103 Transmitter.

7.4.2 IR Pass-through

Use the IR pass through option to send IR remote control signals from the transmitter to the receiver or vice versa using Altinex optional accessories:

AC301-114 IR Emitter

AC301-116 IR Receiver.

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8. Troubleshooting Guide

We have carefully tested and have found no problems in the supplied UT260-104. However, we would like to offer suggestions for the following:

Switcher	
Symptom	**Resolution**
No Audio with VGA Input	1. Make sure the VGA audio source is connected to the 3.5 mm audio input on the switcher. 2. Check the audio source to make sure the audio is playing and that the volume is turned up to a reasonable level.
Poor Output Image	1. Verify the cable between the switcher output and the display is a genuine HDMI cable. 2. Troubleshoot with a lower gauge shorter distance HDMI cable.
RS232 Commands Not Recognized	1. Make sure to include a carriage return at the end of the command or the switch will not recognize the command. 2. Verify you are using the correct baud rate. Remember, the transmitter and receiver can be configured with different baud rates. 3. The default baud rate is 115200 baud.
System Failure	1. Press and hold the input select button on the front of the unit until all input LEDs flash; about 12 seconds and then release. This performs a factory reset and should restore normal operation. 2. Please call the Altinex Customer Service Department at (714) 990-2300 to have the unit repaired.

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