Utilizing IR Pass-through with
X-Series HDBaseT Products

Please be advised, if you are utilizing IR pass-through using an RTI X-Series HDBaseT product and an RTI control processor there are important procedures that must be followed.

APPLIES TO THESE PRODUCTS:

- **VHD-4x**, **VHD-8x** and **VHU-8x** HDBaseT Matrix Switches and included HDBaseT receivers
- **VXT-Ux** and **VHP-1x** HDBaseT Extender Sets
- **RTI Control processors and expansion devices (All XP and RP processor models, PCM4)**

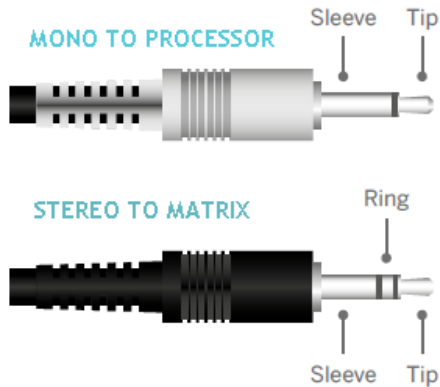**IMPORTANT NOTES:**

1) A special cable (OPT-1x Part # 10-210786-25 - Sold separately) is required for IR pass-through from an RTI control processor.
   a. This opto-coupled, mono-to-stereo plug cable is wired between the RTI control processor and the HDBaseT matrix switch or transmitter. This allows the RTI processor to send an IR signal to the switcher/transmitter which will be passed through to the HDBaseT receiver.
2) You must use the IR emitters included with the matrix switch or extender set.
   a. Plug the IR emitter to the HDBaseT receiver (VHR-1x/VXT-URx) IR Out port and wire to the device that is being controlled.
   b. **RTI vIRsa Mouse IR emitters and third-party IR emitters will not work.**

OPT-1x Cable

The OPT-1x opto-coupling cable is one meter in length and has a stereo connector on one end and a mono connector on the other. The mono plug connects to the RTI control processor's MPIO (IR) port and the stereo plug connects to the HDBaseT matrix switch/transmitter IR input port.

Technical Bulletin

PINOUT WIRING

CONNECTIONS

Connect the OPT-1x opto-coupled cable from one of the RTI processor's MPIO (IR output) ports to the matrix/transmitter IR input as illustrated below. Be sure to connect the stereo plug to the matrix switcher and the mono plug to the RTI processor. The IR signal will be delivered through the Cat cable to the HDBaseT receiver (e.g. VHD-1x or VXT-URx).

IR EMITTER NOTE:

For IR control of the external device from the HDBaseT receiver, you must use the IR emitter that is included with the X-Series matrix products. **RTI vIRsa Mouse IR emitters and other third-party emitters will not work with X-Series HDBaseT receivers.**

Technical Bulletin

Included IR Emitter

CONNECTIONS (CONTINUED)

Plug the IR emitter into the HDBaseT receiver's Tx (transmit) port. Affix the IR emitter to the infra-red sensor of the device that is being controlled. `

When using IR passthrough always ensure control processor port settings are configured properly.

IR RECEIVER NOTE: The Rx (receive) port on the HDBaseT receiver is used for the included IR receiver modules when line-of-sight control is desired from a factory remote or an RTI controller operating in standalone mode.

Included IR Receiver Module