Sound Control Technologies

**RemoteTableKit™**
**Frequently Asked Questions**
Tech Support: 203-854-5701

**Q:** What does the RTK™ do?

**A:** The RTK™ provides a literal extension of the typical input connections available on a Cisco WebEx Room Kit codec.

There are 3 microphone ports that behave exactly the same as the codec ports when connected at both ends of the system. There is an HDMI+audio content port, and there is a USB port with host capabilities at each end.

The RTK™ also provides an auxiliary audio path in each direction for bringing a non-HDMI audio device into the system from the table-end, and providing a discrete audio path back to the table from the codec location, which could be used for "listening assistance" or recording.

**Q:** What is the difference between the RTK-PLUS™ and the RTK-PRO™?

**A:** Both solutions include the same RTK-TX™ transmitter and RTK-RX™ receiver. The difference is the including cabling. The RTK-PLUS™ includes cables to connect a Cisco Codec Plus/Room Kit Plus which have 3.5mm TRRS connectors for the microphones. The RTK-PRO™ includes cables to connect Cisco SX80/Codec Pro/Room 70/Room Kit Pro which have Euro-Block connectors for the microphones.

**USB** (USB 2.0, 90Mbps, sustained)

**Q:** There are USB-A and Micro-B ports on each box; does this mean there is a local USB hub at each end?

**A:** These do work like a hub, but the USB host connection must be made at the other end of the SCT-Link™ from the USB peripherals. The USB-A and Micro-B within each box cannot interact. e.g. If a USB memory stick was connected to the USB-A port of the RTK-TX™ (Transmitter or Table End) the computer would have to be connected to the USB Micro-B port of the RTK-RX™ (Receiver or Codec End).

**Q:** Is there any user-configuration required for the USB connection?

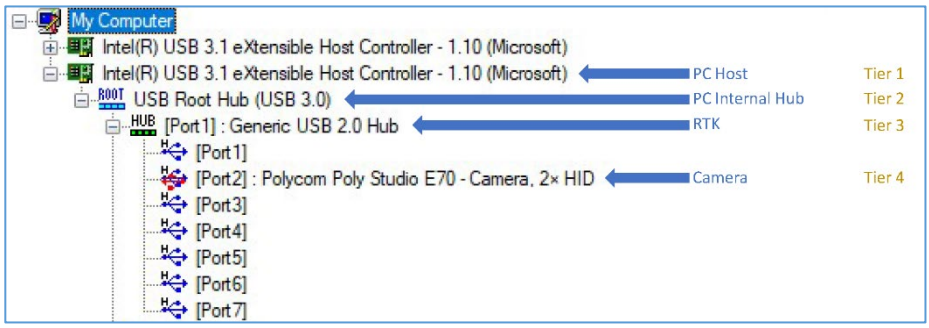
**A:** No, the USB pathways are determined by the host (Micro-B) connection. The host end is determined automatically.

**Q:** Can there be more than one host connected to the RTK™ system?

**A:** No, only one host can be connected at a time. During installation choose which USB direction makes the most sense for your application. A host PC can be connected to either the RTK-TX™ (Transmitter or Table End) or the RTK-RX™ (Receiver or Codec End).

**Q:** How many USB tiers does the RTK™ use?

**A:** A linked RTK™ kit will use up one tier (hub) in the USB hierarchy. Be aware that many computers will use up two tiers internally, and the attached 3rd party device will use another tier. Seven total tiers is the maximum allowed per the USB specification, so take care to design your systems appropriately. Software programs such as UsbTreeView (freeware by Uwe Sieber) can be a useful tool in verifying tier structure. Below is a typical example of a USB camera connected through the RTK™ into a host PC:




## HDMI

**Q:** What resolutions does the video section support?

**A:** The video section supports up to 4K25/30 4:4:4 and is optimized for 1080p50/60. HDMI embedded audio and HDCP up to v2.2 (if present) are also supported.

## PoE/Ethernet port (10/100)

**Q:** What kind of PoE is provided?

**A:** RTK-TX™ (Transmitter or Table End) delivers "passive" PoE of 48VDC and at least 200mA and is considered Class-2, Mode B per IEEE 802.3.

It is intended to provide sufficient power to operate the Cisco Touch Controller.

## POWER

**Q:** Why is there a power jack on each box? Do I need 2 power-supplies?

**A:** Only one power-supply should be used. However, the system design allows the installer to choose which end to power from, either the RTK-TX™ (Table End) or RTK-RX™ (Codec End).

## MICROPHONES

**Q:** Are the microphones mixed together?

**A:** The microphone paths are not mixed and are dependent on connection to the host codec for operation. If there is no microphone connection from the RTK-RX™ (Receiver or Codec End) to a Cisco codec, the corresponding microphone channel at the RTK-TX™ (Transmitter or Table End) is inactive.

**Q:** There are 3 microphone inputs at the RTK-TX™ (Transmitter or Table End), but my codec has only 2 inputs available. Can I use all 3 channels?

**A:** The microphone channels at the RTK-TX™ (Transmitter or Table End) depend on a physical connection between the RTK-RX™ (Receiver or Codec End) and the codec before they will become active.

So, if the codec has only 2 microphone inputs available, and those are connected to the RTK-RX™ (Receiver or Codec End), then only the corresponding 2 microphone channels at the RTK-TX™ (Transmitter or Table End) will be active.

## OPERATION

**Q:** What do the LEDs indicate?

**A:** The LEDs on both the RTK-TX™ and RTK-RX™ provide a good way to tell if the system is wired correctly and operating normally. Refer to the chart below for details.

| MODULE | LED LABEL | ACTIVE STATUS | INACTIVE STATUS |
|---|---|---|---|
| RTK-TX/RX | FW | Blinking Green | Off |
| RTK-TX/RX | HDCP | Solid or Blinking Green | Off |
| RTK-TX/RX | LINK | Solid Green | Off |
| RTK-TX/RX | Power | Solid Green | Off |