



Q: What does the RTK-X57™ do?

A: The RTK-X57™ provides a literal extension of the typical input connections available on a Poly Studio, Studio X50, or Studio X70 video bar.

There is a microphone port that behaves exactly the same as when the microphone is plugged into the video bar directly. There is also 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 video bar location, which could be used for “listening assistance” or recording.

Q: What is the difference between the RTK-X57™ and the RTK-X57-PSU™?

A: Both solutions include the same RTK-X57-TX™ transmitter and RTK-X57-RX™ receiver. The difference is the including cabling. The RTK-X57™ includes cables to connect a Poly Studio X50 or X70 video bar. The RTK-X57-PSU™ includes cables to connect a Poly Studio video bar.

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-X57-TX™ (Transmitter or Table End) the computer would have to be connected to the USB Micro-B port of the RTK-X57-RX™ (Receiver or Video Bar End).

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

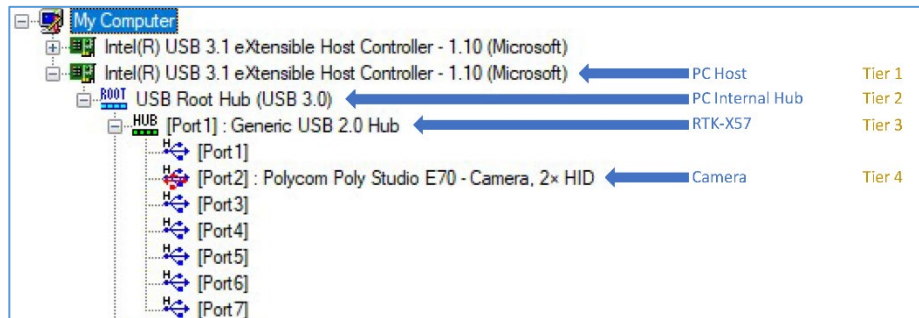
A: No, the USB pathways are determined by the host (Micro-B) connection. The host end is determined automatically.

Q: Can there be more than one host connected to the RTK-X57™ 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-X57-TX™ (Transmitter or Table End) or the RTK-X57-RX™ (Receiver or Video Bar End). In a typical installation with a Poly video bar, plug the video bar into the RTK-X57-RX™ USB-A connector and plug the guest laptop into the RTK-X57-TX™ USB-Micro connector.

Q: How many USB tiers does the [RTK-X57™](#) use?

A: A linked [RTK-X57™](#) 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-X57™](#) 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-X57-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 Poly TC8 Touch Screen 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-X57-TX™](#) (Table End) or [RTK-X57-RX™](#) (Receiver End).

MICROPHONES

Q: What microphones are supported?

A: The [RTK-X57™](#) is designed to be used with the Poly Studio Expansion Microphone. All three mic elements within this microphone are supported, as is full mute logic.

OPERATION

Q: What do the LEDs indicate?

A: The LEDs on both the [RTK-X57-TX™](#) and [RTK-X57-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-X57-TX/RX	FW	Blinking Green	Off
RTK-X57-TX/RX	HDCP	Solid or Blinking Green	Off
RTK-X57-TX/RX	LINK	Solid Green	Off
RTK-X57-TX/RX	Power	Solid Green	Off