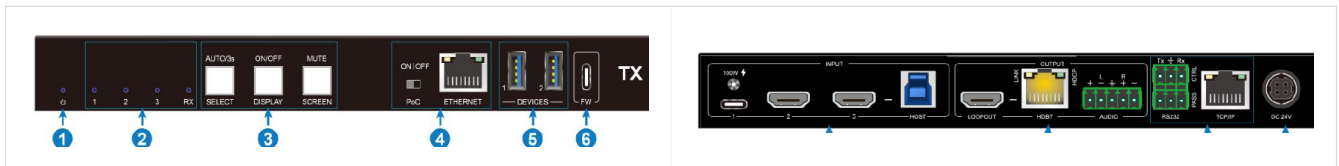


# MP-SC-31T Codec

Video Conference Hub over HDBaseT 3.0 3×1 with 100W Charging



## PRODUCT OVERVIEW

The MP-SC-31T Codec is a professional 3×1 18G KVM switcher/extender kit for video-conferencing and presentation environments. It combines USB-C and HDMI source switching with HDBaseT 3.0 extension, HDMI loop-out, USB extension, audio pass-through, RS232 and two-way IR. USB-C supports up to 100W charging, while HDBaseT provides long-distance 4K signal transmission over CAT6A.

## KEY FEATURES

- 3×1 18G presentation switcher with HDBaseT output
- 18Gbps bandwidth with HDMI 2.0 and HDCP 2.2 support
- USB-C and HDMI video inputs up to 4K@60Hz 4:4:4
- USB-C input with up to 100W charging capability
- HDBaseT transmission up to 40m at 4K@60Hz or 70m at 4K@30Hz
- HDMI loop-out for local display monitoring
- USB 3.2 Gen1 extension and KVM functionality
- Two-way IR, RS232 pass-through and TCP/IP/GUI control
- Two-way 24V PoC; one power adapter can power the system
- Balanced analog audio output with TX/RX volume adjustment
- HDR10 and Dolby Vision support

## AT-A-GLANCE

|                  |                                    |
|------------------|------------------------------------|
| Configuration    | 3×1 KVM Switcher / Extender        |
| Transmission     | HDBaseT 3.0 over CAT6A             |
| Bandwidth        | 18Gbps                             |
| Maximum Video    | 4K@60Hz 4:4:4                      |
| USB-C Charging   | Up to 100W                         |
| HDBaseT Distance | 40m @ 4K60 / 70m @ 4K30            |
| Control          | Front Panel / GUI (TCP/IP) / RS232 |
| Power            | DC 24V / 6.5A                      |

# TECHNICAL SPECIFICATIONS

MP-SC-31T Codec — Transmitter & Receiver

## VIDEO

| Video             | Transmitter                             | Receiver                               |
|-------------------|-----------------------------------------|----------------------------------------|
| Input             | 1× USB-C, 2× HDMI, 1× USB-B             | 1× HDMI, 1× USB-B, 1× HDBaseT          |
| Input Connector   | 1× USB-C; 2× HDMI Type-A; 1× USB Type-B | 1× HDMI Type-A; 1× USB Type-B; 1× RJ45 |
| Input Resolution  | Up to 4K@60Hz 4:4:4                     | Up to 4K@60Hz 4:4:4                    |
| Output            | 1× HDBaseT; 1× HDMI Loopout             | 1× HDMI                                |
| Output Connector  | 1× RJ45; 1× HDMI Type-A                 | 1× HDMI Type-A                         |
| Output Resolution | Up to 4K@60Hz 4:4:4                     | Up to 4K@60Hz 4:4:4                    |

## AUDIO

| Parameter           | Specification                       |
|---------------------|-------------------------------------|
| Output              | 1× analog audio output on TX and RX |
| Connector           | 5-pin terminal block                |
| Audio Format        | PCM 2.0                             |
| Frequency Response  | 20Hz–20kHz, ±3dB                    |
| Max Output Level    | 2.0Vrms ±0.5dB                      |
| THD+N               | <0.05% (-80dB), 20Hz–20kHz          |
| SNR                 | >80dB, 20Hz–20kHz                   |
| Crosstalk Isolation | -70dB                               |
| Stereo Separation   | >70dB @ 1kHz                        |

## CONTROL & GENERAL

| Parameter             | Specification                                           |
|-----------------------|---------------------------------------------------------|
| Control               | Front buttons, TCP/IP GUI, RS232                        |
| USB                   | USB 3.2 Gen1; TX: 2× USB-A; RX: 2× USB-A + 2× USB-C     |
| HDMI Standard         | HDMI 2.0                                                |
| HDCP                  | Input: HDCP 2.2 / HDCP 1.4 compliant; HDCP management   |
| PoC                   | Two-way 24V PoC                                         |
| Transmission Standard | HDBaseT                                                 |
| Transmission Distance | 4K@60 4:4:4 ≤40m; 4K@30 4:4:4 ≤70m; 1080p@60 4:4:4 ≤70m |
| HDMI Cable Length     | 4K@60 4:4:4 ≤5m; 4K@30 4:4:4 ≤10m; 1080p ≤15m           |
| Operating Temperature | -5°C to +55°C                                           |
| Storage Temperature   | -25°C to +70°C                                          |
| Humidity              | 10%–90%, non-condensing                                 |
| Power Supply          | DC 24V / 6.5A                                           |
| Dimensions (W×H×D)    | TX: 218×26×130mm; RX: 177×26×110mm                      |
| Net Weight            | TX: 700g; RX: 540g                                      |

## PACKAGE CONTENTS

1× MP-SC-31T Codec TX • 1× MP-SC-31T Codec RX • 4× mounting ears with 4 screws • 8× rubber feet • 2× 5-pin terminal blocks • 1× DC 24V/6.5A power adapter • 2× 2×3-pin terminal blocks • 1× 3-pin terminal block • 1× user manual

Source: MP-SC-31T Codec User Manual, Version MP-SC-31T Codec\_V1.0. Manual functions/specifications updated through March 2025. Verify against the latest manufacturer documentation before final publication.