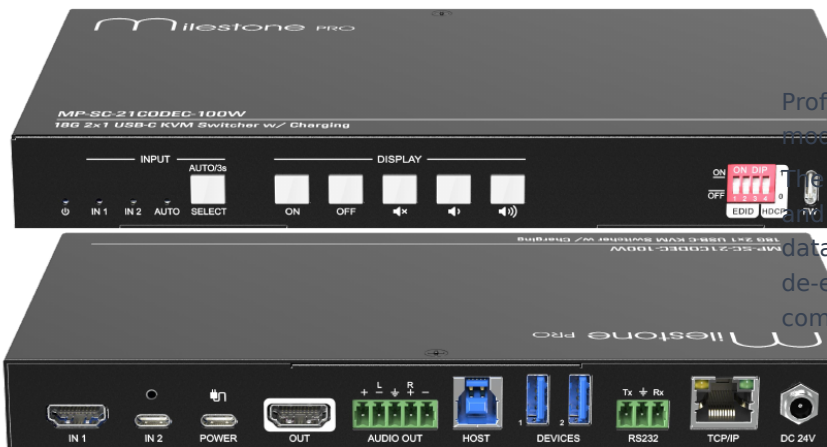


MP-SC-21CODEC-100W

18G 2x1 USB-C KVM Switcher with Charging



Professional USB-C / HDMI switching for modern AV workspaces.

The MP-SC-21CODEC-100W combines HDMI 2.0 video source switching with USB KVM, 5G data transfer, PD 3.0 charging, audio de-embedding and network/RS232 control in a compact installation-friendly chassis.

PRODUCT OVERVIEW

Designed for presentation, collaboration and KVM applications, the switcher accepts one HDMI and one USB-C video source and provides a single HDMI output. It supports resolutions up to 4K@60Hz 4:4:4, HDR10 and HDCP 2.2, while integrated USB 3.2 Gen1 connectivity enables peripherals such as cameras, microphones and keyboards. Automatic source selection, EDID management and 4K-to-1080P down-scaling help simplify deployment across mixed display environments.

KEY FEATURES

- 18G 2x1 switching with HDMI + USB-C inputs
- Up to 4K@60Hz 4:4:4 video performance with HDMI 2.0
- HDR10 and HDCP 2.2 support
- USB 3.2 Gen1 with 5G data transfer
- PD 3.0 charging for compatible USB-C hosts
- Automatic 4K down-scaling to 1080P
- Balanced analog audio output with audio de-embedding
- Smart EDID management and customized settings
- TCP/IP, RS232 and front-panel control options
- Two USB device ports; each device port provides 5V / 900mA

AT A GLANCE

Parameter	Specification	Parameter	Specification
Video Inputs	1x HDMI + 1x USB-C	Video Output	1x HDMI
Max. Resolution	Up to 4K@60Hz 4:4:4	Bandwidth	18Gbps
USB	USB 3.2 Gen1	Charging	PD 3.0
Audio	Balanced Stereo L/R	Control	EDID / RS232 / TCP/IP
Power	24V DC, 1.25A	Net Weight	625g

Technical Specifications

Category	Specification	Details
Video	Input	1× HDMI; 1× USB-C
Video	Input Connector	1× Type-A female HDMI; 1× Type-C USB
Video	Input Resolution	Up to 4K@60Hz 4:4:4
Video	Output	1× HDMI
Video	Output Connector	1× Type-A female HDMI
Video	Output Resolution	Up to 4K@60Hz 4:4:4
Video	HDMI / HDCP	HDMI 2.0 / HDCP 2.2
Video	HDR / CEC / HPD	HDR10 supported / CEC: Yes / HPD supported
Audio	Output	1× AUDIO OUT, stereo balanced L/R
Audio	Connector	1× 5-pin terminal block
Audio	HDMI Formats	LPCM 7.1, Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, DTS:X, DTS-HD Master Audio pass-through
USB / KVM	Device Ports	2× Type-A USB, USB 3.2 Gen1
USB / KVM	Data Rate	5G data transfer rate
Control	Interfaces	EDID, RS232, TCP/IP
Control	Connectors	4-pin DIP switch, 3-pin terminal block, RJ-45
General	Bandwidth	18Gbps
General	Operating Temperature	−5°C to +55°C
General	Storage Temperature	−25°C to +70°C
General	Relative Humidity	10%–90%
Power	External Power Supply	DC 24V, 1.25A
Mechanical	Dimensions (W×H×D)	215.0 × 24.5 × 120.0 mm
Mechanical	Net Weight	625g

HDMI CABLE LENGTH GUIDANCE

Signal	Recommended Maximum
4K@60Hz 4:4:4	≤ 5m
4K@60Hz 4:2:0	≤ 10m
4K@30Hz 4:4:4	≤ 10m
1080P	≤ 15m

PACKAGE CONTENTS

- 1× MP-SC-21CODEC-100W main unit
- 1× 24V DC 1.25A power adapter
- 2× mounting ears with 4 screws
- 1× 5-pin terminal block
- 1× RS232 cable (3-pin terminal block to DB9)
- 4× rubber feet
- 1× user manual

Source: MP-SC-21CODEC-100W User Manual, Version 2024V1.0. Specifications are presented in a product-datasheet format for marketing and technical reference; always verify final installation requirements against the current manufacturer documentation.