

ARC-SP18EX

8 Way HDMI Splitter Over Single CAT Cable



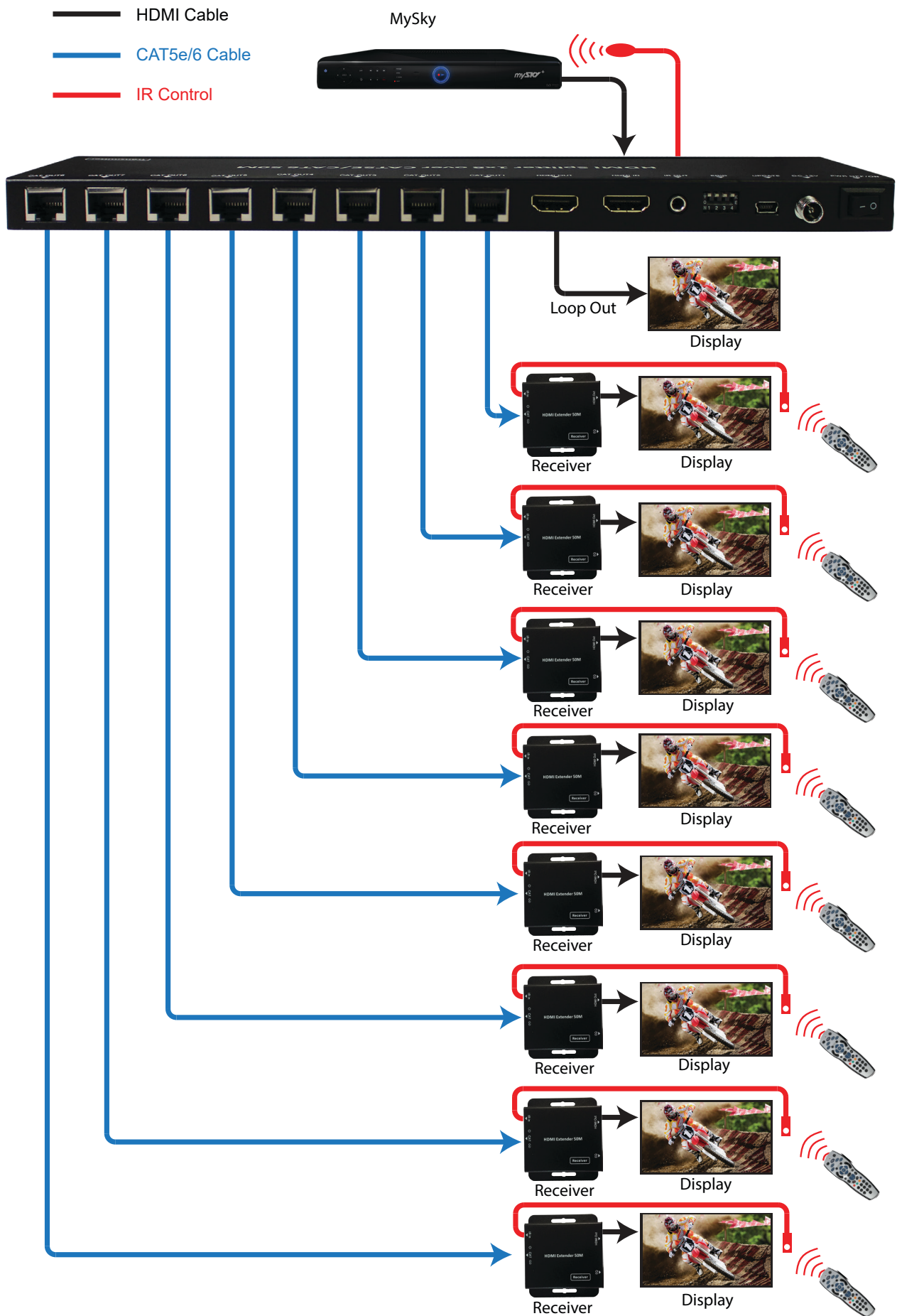
Introduction

The ARC-SP18EX is a HDMI distribution amplifier featuring passthrough HDMI connections, eight extended distance, ethernet-enabled CAT outputs and display control capability. Each output transmits AV and return control signals up to 50 metre. Features include EDID management, return IR, PoE for powering remote receivers and supports resolution up to 1080p@60Hz.

Features

- Compliant with HDMI1.3, HDCP 1.2 and DVI 1.0.
- Full HD support: 1080p@60Hz@24 bit/pixels.
- Supports LPCM 7.1CH, Dolby True HD, and DTS-HD Master Audio.
- Operates for TMDS clock frequencies up to 148.5MHz.
- Support Power over cable function.
- Use single UTP LAN cable (CAT5E/6) to substitute HDMI cable to achieve long distances transmission.
- UTP cable termination follows the standard of IEEE-568B.
- Supports EDID control via EDID selector.

Wiring Diagram



Specifications

Technical - Splitter	
HDMI Compliance	HDMI 1.3
HDCP Compliance	HDCP1.2
Video Bandwidth	1.65G
Video Resolutions	up to 1080P@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	8-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connections - Splitter	
Inputs	1x HDMI Type A [19-pin female]
Outputs	1x HDMI Type A [19-pin female] 8x CAT[RJ45] 1x IR OUT[3.5mm Stereo Mini-jack]
Mechanical - Splitter	
Housing	Metal Enclosure
Dimensions	295mm [W] x 83mm [D] x 17mm [H]
Net Weight	720g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption (Max)	15W
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)
Technical - Receiver	
HDMI Compliance	HDMI 1.4b
HDCP Compliance	HDCP 1.4
Video Bandwidth	4.95 Gbps
Video Resolutions	up to 1080P@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	10-bit, 12-bit
Audio Formats	PCM 2CH, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital+
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connections - Receiver	
Inputs	1x RJ45 [HDMI & Propriety Data] 1x 3.5mm Stereo Mini-jack [Infrared Receiver]
Outputs	1x HDMI Type A [19-pin female]
Mechanical - Receiver	
Housing	Metal Enclosure
Dimensions	60mm [W] x 60mm [D] x 15mm [H]
Net Weight	131g x 8
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption (Max)	TX: 1.5W RX: 1W
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)