

MODEL : SB-6335T & SB-6335R
HDBaseT TRANSMITTER & RECEIVER



HDMI HDBaseT EXTENDER TRANSMITTER & RECEIVER with RS-232



HDBaseT with Ethernet 100M EXTENDER Series

Thank you for purchasing the SB-6335T & R HDBaseT with RS-232 Transmitter & Receiver. You will find this unit easy to install and highly reliable but it is essential that you read this manual thoroughly before attempting to use these extenders.



SAFETY INFORMATION



1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the "ON" position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment.
 - C. The equipment has been exposed to rain
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance
 - E. The equipment has been dropped, or the enclosure damaged.

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INTRODUCTION

Congratulations on your purchase of one of the most innovative HDMI 1.4a over single category cable Transmitter & Receiver with RS-232 on the market today. SB-6335T HDBaseT Transmitter & Receiver can transmit the HDMI signal, IR Remote signals input or output and RS-232 I/O series interface to the other size HDBaseT Receiver (SB-6335R) via single category LAN cable for the long distance Maximum 328 feet (100M). Transmitter & Receiver use the single CAT6, CAT6a or CAT7 (UTP/FTP) category cable via RJ-45 8P8C female socket. The LAN cable support the 568a or 568b LAN color specification table. This product provide higher full HD HDMI 1.4a, HDTV Resolution supports 480i/p, 720p,1080i/p or High 4K2K quality that are identical to the source high quality full HDMI 1.4 signals. The Transmitter & Receiver is useful for sending the HDMI digital Video & digital multi-channel audio format signals, IR remote in or IR remote out, RS-232 series in and RS-232 series out. Controls signals via single category cable transmit to the HDBaseT Transmitter & Receiver.

CONFORMANCE TEST REPORT

FOR **EN 61000-6-1 / EN 61000-6-3**

CE REPORT NUMBER: 09-07-MAS-282-18-R

FOR **FCC 47 CFR/Part 15 Subpart B**

FC Report Number: 09-07-MAS-282-19-R

Model Number: SB-6335T / SB-6335R

Comment Number : SB-6215, SB-6215R, SB-6215RE,
SB-6220R SB-6220RE, SB-6240R, SB-6240RE, SB-6335,
SB-6335R, SB-6320, SB-6320R

RECEIVER:

Input: HDBaseT CAT6/6a/7 single cable
Output: HDMI & RS-232 series interface
Power Input: +DC12V , 2A

TRANSMITTER:

Input: HDMI ((with DVI -Audio)
Output: HDBaseT via CAT6/6a/7 Cable
Power Input: +DC12V , 2A

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

DISCLAIMERS

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PACKAGE CONTENTS

RECEIVER

Check that you have the following components;

- SB-6335R HDBaseT Receiver console
- SB-100C IR Receiver w/ attached cable (2x)
- SB-101C IR Emitter w/attached cable (2x)
- SB-100 IR Receiver w/assembly plug (2x)
- SB-101 IR Emitter w/assembly plug (2x)
- 1 inch High Wall mount pack (Part # WM-1INCH-L80MM) (2x)
- Users Guide
- AC/DC Adapter: 12VDC/2A (universal power switch 50/60Hz, 100~240VAC) (2x)



TRANSMITTER

Check that you have the following components;

- SB-6335T HDBaseT Transmitter console
- Users Guide
- AC/DC Adapter: 12VDC/2A (universal power switch 50/60Hz, 100~240VAC)

OPTIONAL ACCESSORIES

- (1) 1x SB-100 set (IR Receiver Extender assy plug).
- (2) 1x SB-100C cable (IR Receiver Cable).
- (3) 1x SB-101 set (IR Transmitter Extender assy plug).
- (4) 1x SB-101C cable (IR Transmitter Cable).
- (5) 1x 1 inch High Wall mount pack (Part # WM-1INCH-L80MM).
- (6) 1x CAT6 Category cable distance 328 feet (100 M), (P/N: UTP6-100)



FEATURES

FEATURES

RECEIVER

- HDBaseT HDMI Receiver over single CAT6/6a/7 category LAN cable.
- Extend for HDMI, IR in/out and RS-232 series interface in/out with HDCP compliant.
- Support category cable via using the CAT6, CAT6a and CAT7 UTP/FTP cable.
- Support link speeds of up to 3.4 Gbps
- Support Digital RGB 36bits, V1.4a HDMI TMDS format.
- Extension higher quality DVI video 1920x1200 resolution.
- Support HD High Definition full range resolution 480p, 720p 1080i/1080p and 4k2k.
- Support long distance 100M between HDBaseT Transmitter and HDBaseT Receiver.
- Support wall mount pack and rack mount install for 19 inch 4U Rack mountable.
- Power support DC input with Low power consumes (Full load 850mA)
- Power supply using universal power switch 50/60Hz,100~240VAC.

TRANSMITTER

- HDBaseT Transmitter Extend the HDMI over single CAT5e/6/6a category 100M LAN cable.
- Transmit signals HDMI, IR in/out and RS-232 I/O series interface.
- Single category cable via using the CAT6, CAT6a and CAT7 (UTP or FTP) cable.
- Support link speeds of up to 3.4 Gbps, HDMI 1.4, full HD 4K2K signal, HDCP compliant.
- Support Digital RGB 36bits, HDMI digital video TMDS, digital multi-channel audio format.
- Extension higher quality full HD DVI video WUXGA 1920x1200 resolution.
- Support High Definition worldwide range resolution 480p, 720p 1080i/1080p-60Hz and 4K2K.
- Extend long distance 328 feet (100M) between HDBaseT Transmitter and Receiver.
- Support wall mount install total 10 pcs. into one 19 inch 4U Rack mountable.
- Power input via DC with Low power consumes (Full load 750mA)
- Power supply using universal power switch 50/60Hz,100~240VAC.

SPECIFICATIONS

SPECIFICATIONS

RECEIVER

- **Type of Extender:** HDBaseT Receiver for HDMI signal over one category LAN Cable
- **Input Signals:** HDMI with Digital Video(TMDS)/Audio 0.5~1.0vPP, DDC 5Vpp
- **HDBaseT Supports:** HDMI Standard, DVI and HDCP Compliant
- **Video Support:** HDMI and DVI TMDS format for 1920x1200 resolution up to 3.4 Gbps Digital RGB 36bits deep color, 3D 1.4a HDMI format
- **HDMI Audio Out Supports:** Multi-channel Audio Formats 5.1 / 7.1, MAT(MLP), Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6.1, DTS-HD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
- **RS-232 Series Support:** 1x RS-232 series interface port (Terminal Block 3pin female socket).
- **Category Cable Support:** CAT6, CAT6a, CAT7 UTP/FTP cable
- **Support HDMI Resolution:** 480p, 720p, 1080i/1080p, 4k2k
- **Scan Rate Accepted:** Support HDMI full HD Resolutions; Frequency 24Hz to 60Hz
- **Control:** 1x IR in/out, 1x IR in/out, 1x RS-232 and 1x LAN series interface
- **IR Infrared Frequency:** 38Khz
- **Extend Distance:** Up to 100M (CAT6)
- **Safety Approvals:** CE, FCC, VCCI, REACH & WEEE
- **Dimensions (LxWxH):** 3.15 x 5.12 x 1 in (80mm x 130mm x 26mm)
- **Rack Mount :** Use total 10 pcs install into one 19 inch rack mountable
- **Shipping Weight:** 0.325 kgs / 0.715 lb
- **Power Consumption:** Max. 750mA. (Full load 1080p-60Hz signal with use DC12V input)
- **Power Supply:** Power Input +12VDC, 2A, (Universal Type 50/60Hz, 100~240 VAC)

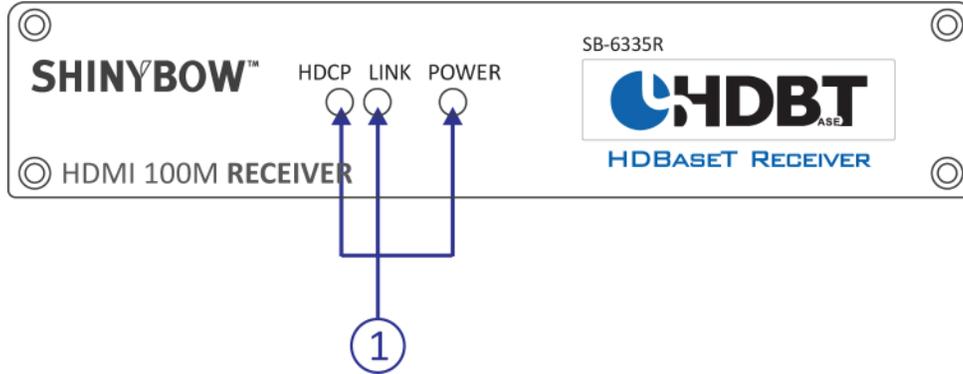
TRANSMITTER

- **Type of Extender:** HDBaseT Transmitter for HDMI over single category 100M Cable
- **Input Signals:** HDMI with Digital Video(TMDS)/Audio 0.5~1.0vPP, DDC 5Vpp
- **HDBaseT Supports:** HDMI 1.4 Standard, DVI and HDCP Compliant
- **Video Support:** HDMI and DVI TMDS format for 1920x1200 resolution up to 3.4 Gbps Digital RGB 36bits deep color, 3D 1.4a HDMI format
- **Audio I/O Supports:** Multi-channel Audio Formats 5.1 / 7.1, MAT(MLP), Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6.1, DTS-HD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
- **Extend Distance:** Up to 328 feet (100 meters) via (UTP or FTP CAT6 100m cable)
- **Cable Support:** CAT6, CAT6a, CAT7 use UTP or FTP category cable
- **Support HDMI Resolution:** 480p, 720p 1080i/1080p@60Hz or 4K2K@24Hz
- **Scan Rate Accepted:** Support HDMI full HD Resolutions; Frequency 24Hz to 60Hz
- **Control:** 1x IR in, 1x IR out and 1x RS-232 I/O series interface
- **IR Infrared Frequency:** 38Khz
- **Safety Approvals:** CE, FCC, VCCI, REACH & WEEE
- **Dimensions (LxWxH):** 5.12 x 3.14 x 1.14 in (130mm x 80mm x 29mm)
- **Wall Mount:** Wall mount pack (p/n:VM-1inch-L80MM)
- **Rack Mount :** Total 10 pcs install into 19 inch 4U Rack mountable
- **Shipping Weight:** 0.375 kgs / 0.825 lb
- **Power Consumption:** Max. 750mA. (Full load 1080p-60Hz signal with use DC12V input)
- **Power Supply:** Power Input +12VDC, 2A, (Universal Type 50/60Hz, 100~240 VAC)

As product improvements are continuous, specifications are subject to change and without notice.

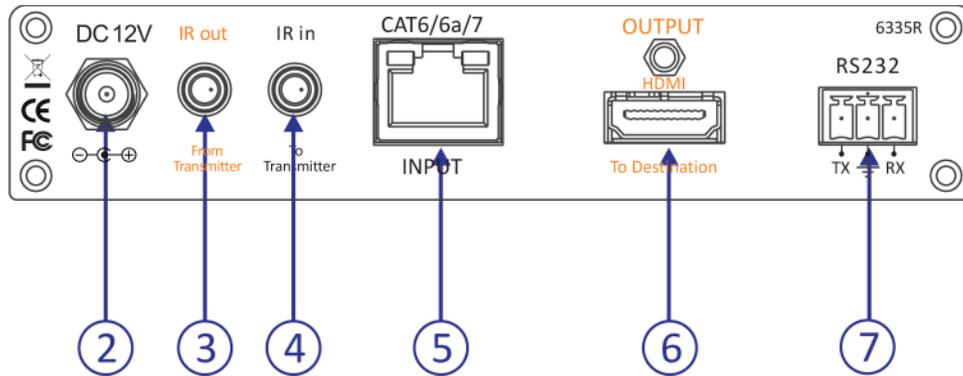
TYPICAL HOOKUP AND OPERATION

FRONT PANEL: SB-6335R



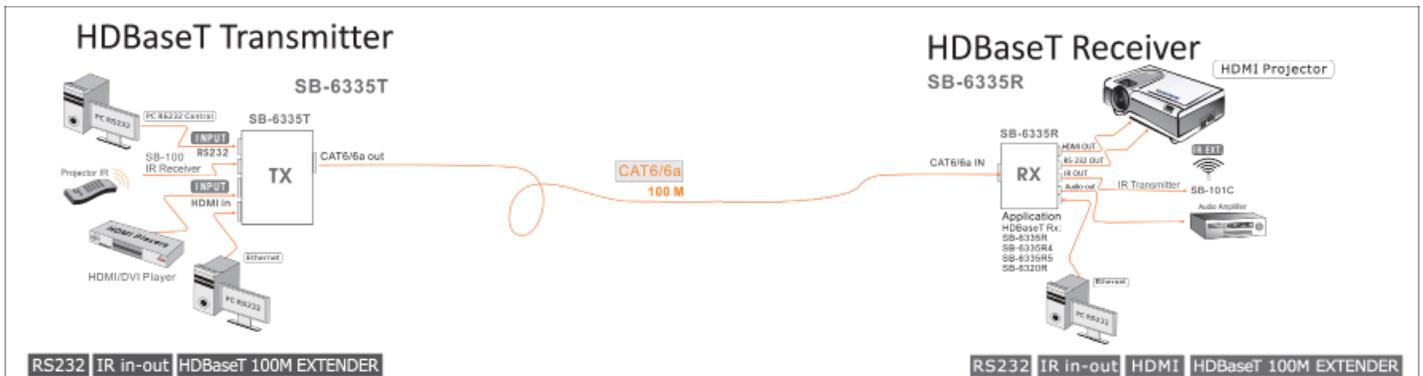
1. Status via LED Show out : POWER, LINK & HDCP

REAR PANEL: SB-6335R



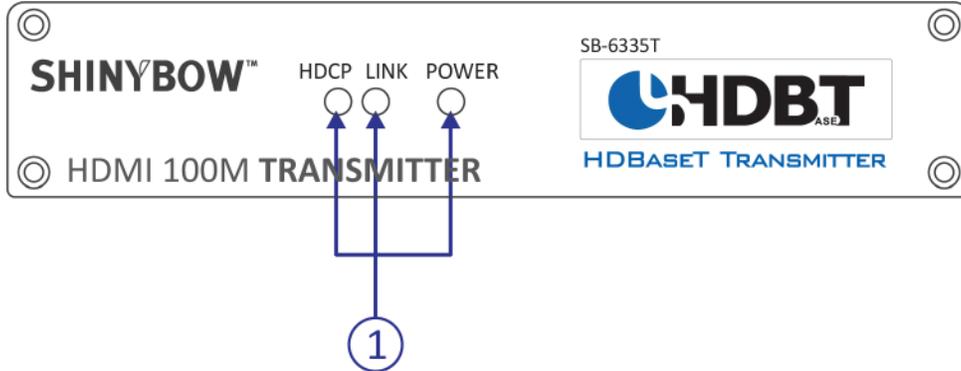
- 5. DC input : DC12V, 2A
- 6. IR IN : Send IR signal to HDBaseT Transmitter
- 7. IR OUT : Receive IR signal from HDBaseT Transmitter via IR External Receiver SB-100)
- 8. RJ-45 IN : HDBaseT input , Signal from the HDBaseT Transmitter
- 9. HDMI OUT : HDMI output , Signal to HDMI destination display device
- 10. RS-232 I/O : RS-232 series interface in or out control via a PC

INSTALLING DIAGRAM



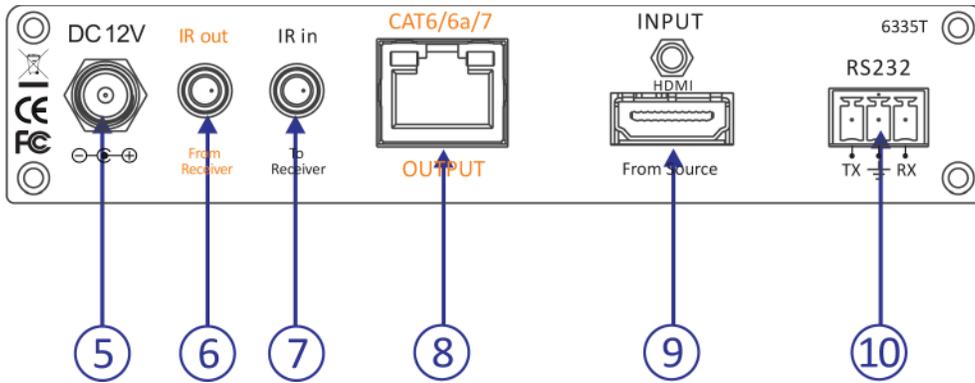
TYPICAL HOOKUP AND OPERATION

FRONT PANEL: SB-6335T



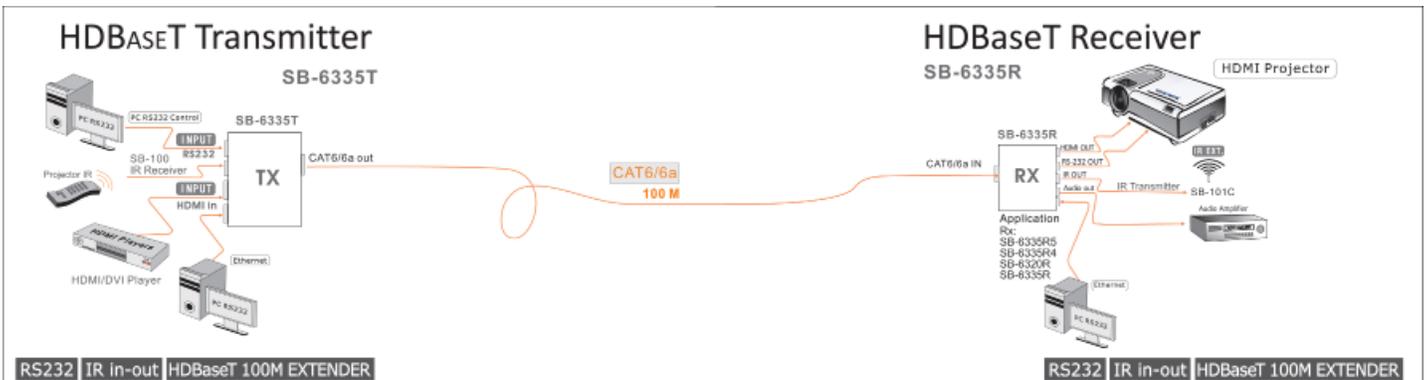
1. Status via LED Show out : HDCP, LINK & POWER

REAR PANEL: SB-6335T



- 5. DC input : DC12V, 2A
- 6. IR IN : Sending IR Signal To HDBaseT Receiver
- 7. IR OUT : Receive IR signal from HDBaseT Transmitter
- 8. RJ-45 OUT : HDBaseT signal output to HDBaseT Receiver
- 9. HDMI IN : HDMI signal input from HDMI source device
- 10. RS-232 I/O : RS-232 I/O series interface via HDBaseT

INSTALLING DIAGRAM



RACK MOUNT (optional)

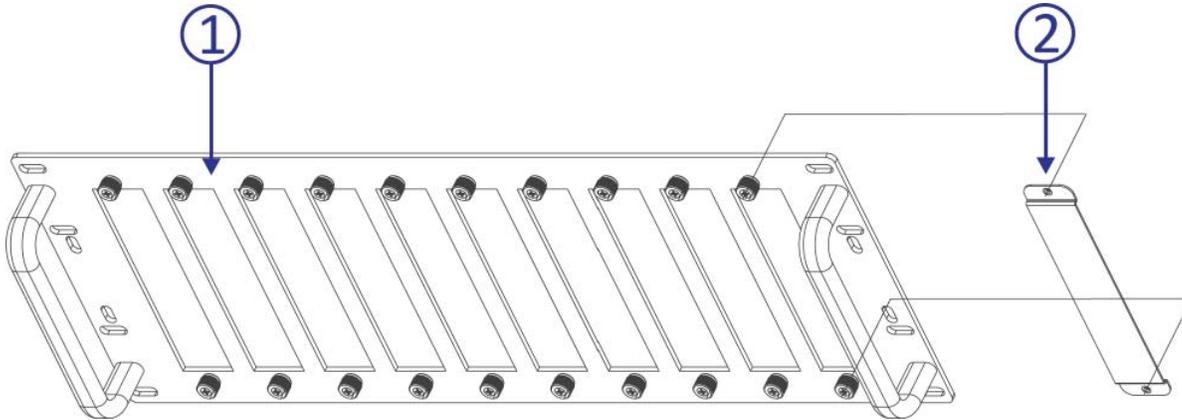
SB-6069

SB-6335T/SB-6335R 19 INCH 4U-10P RACK MOUNT

Model No. : #4U-10p-L130MM

SB-6335T/SB-6335R 4U Ear mount pairs

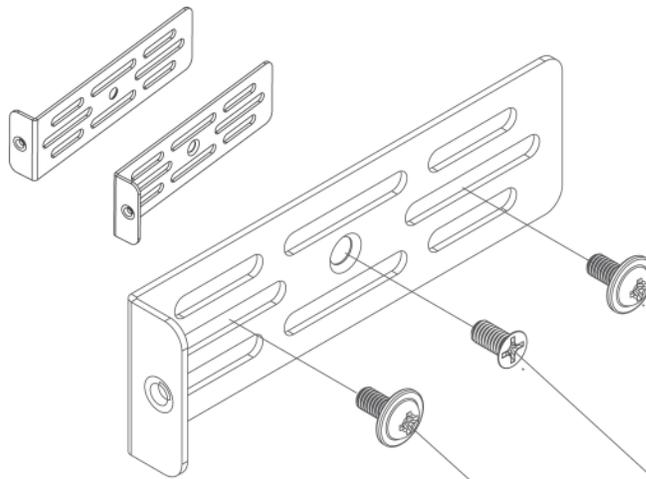
Parts No.: MEER6069ER13000



Model No. : #4U-10p-L130MM-COV

SB-6335T/SB-6335R 4U Ear mount pairs

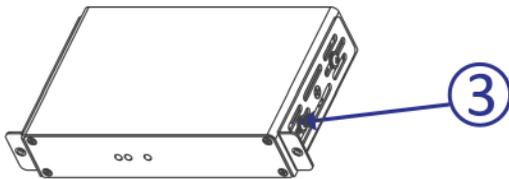
Parts No.: MEER6069ER11000



Model No. : #4U-10p-L80MM-EAR

SB-6335T/SB-6335R 4U Ear mount pairs

Parts No.: MEER6320ER11001



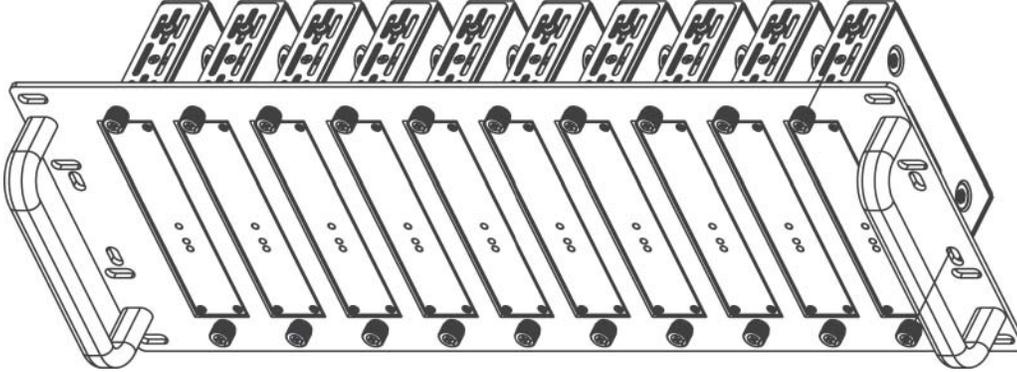
P/N:TP-ISO-M3x6mm(x2)
(MESCW30006ISO02)

P/N:ISO-M3x6mm
(MESCF30006ISO02)

RACK MOUNT (optional)

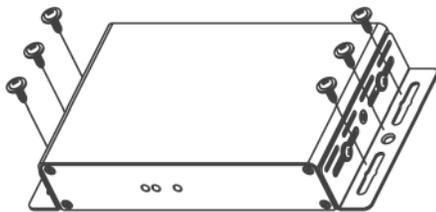
SB-6069

Complete 19 inch 4U rack mount



Install Application : SB-6335T/SB-6335R

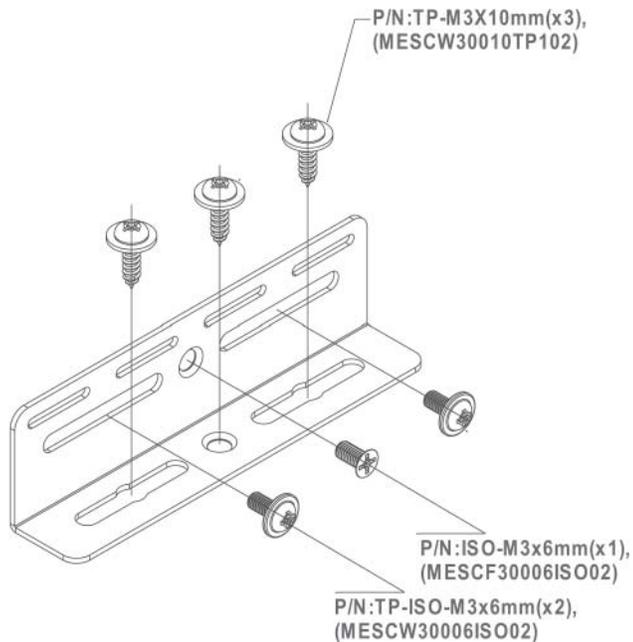
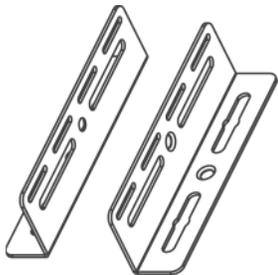
SB-6335T/SB-6335R : Wall mount accessories



Model No. : #WM-1INCH-L80MM

SB-6335T/SB-6335R Wall mount pairs

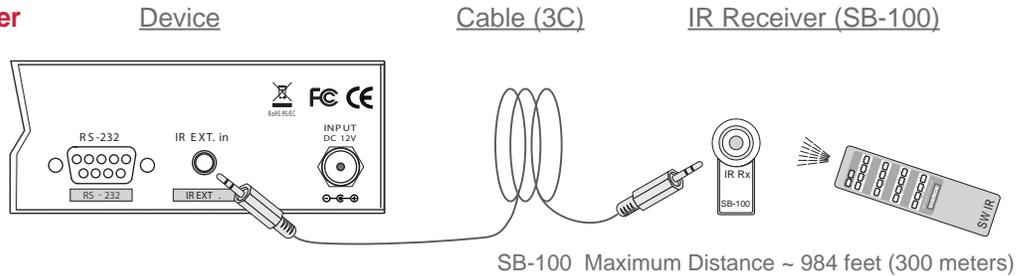
Parts No.: MEER6320ER11000



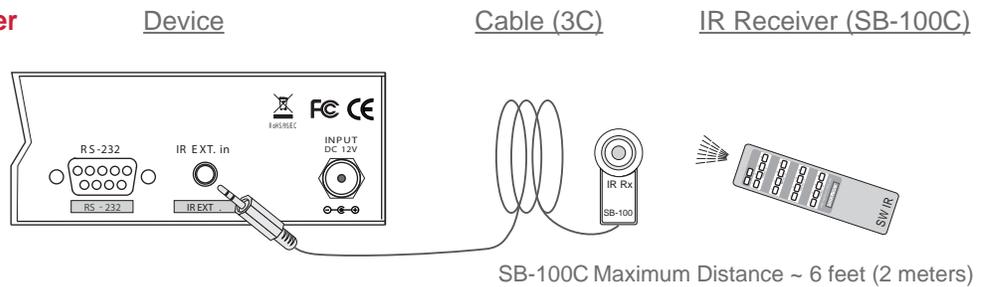
IR EXTENDER

IR RECEIVER:

1. SB-100 IR 300M Receiver



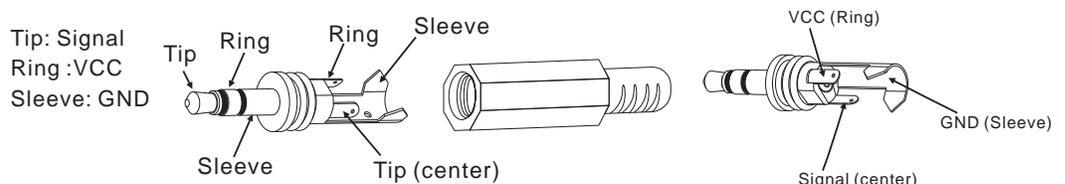
2. SB-100C IR 2M Receiver



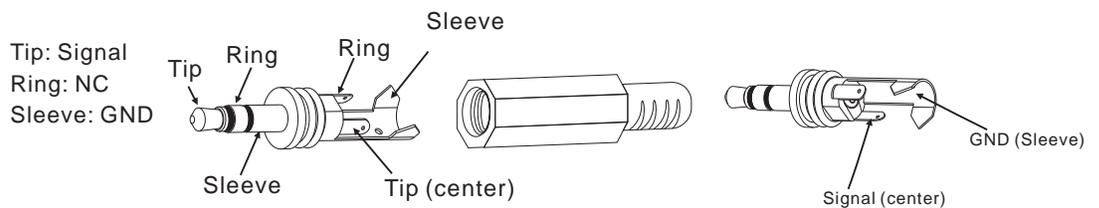
*** When you plug the External IR extender into the switcher, the front panel IR receiver remains active. ***

PIN CONFIGURATION:

SB-100 and SB-100C Receiver Pin configuration



SB-100 Maximum Distance ~ 984 feet (300 meters)



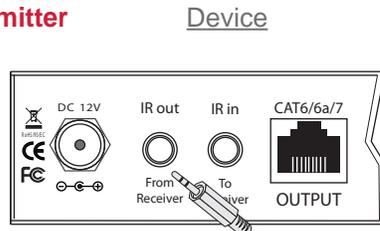
SB-100C Maximum Distance ~ 6 feet (2 meters)

Note: The External IR jack has voltage on the "Ring" portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug). Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.

IR EXTENDER

IR EMITTER:

1. SB-101 IR 300M Transmitter



Cable (3C)

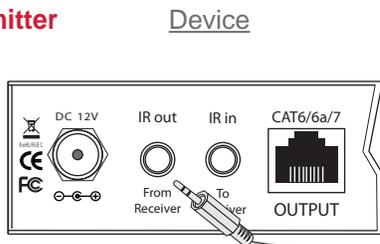


IR Transmitter (SB-101)

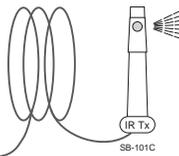


SB-101 Maximum Distance ~ 984 feet (300 meters)

2. SB-101C IR 2M Transmitter



Cable (3C)



IR Transmitter (SB-101C)



SB-101C Maximum Distance ~ 6 feet (2 meters)

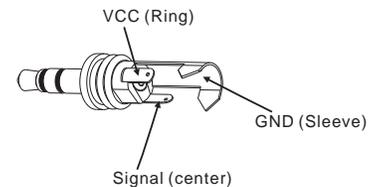
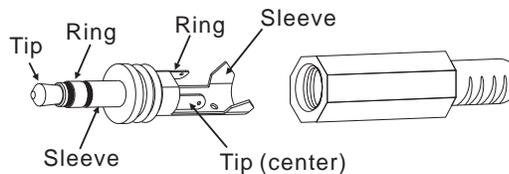
*** When you plug the External IR extender into the switcher, the front panel IR transmitter remains active. ***

PIN CONFIGURATION:

SB-101 and SB-101C Transmitter Pin configuration



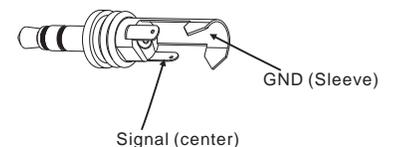
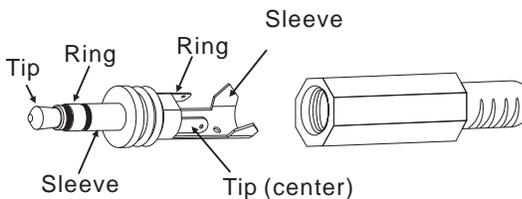
Tip: Signal
Ring :VCC
Sleeve: GND



SB-101 Maximum Distance ~ 984 feet (300 meters)



Tip: Signal
Ring: NC
Sleeve: GND



SB-101C Maximum Distance ~ 6 feet (2 meters)

Note: The External IR jack has voltage on the "Ring" portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug). Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.

LIMITED WARRANTY

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