AC-EXO-UNC-KIT

QUICK START GUIDE

THIS IS AVPROEDGE'S FLAGSHIP FIBER OPTIC EXTENDER, ALLOWING THE USER TO EXTEND AN HDMI SIGNAL UP TO 300 METERS USING SINGLE-MODE OR MULTI-MODE FIBER. IT SOLVES PROBLEMS FOR BOTH COMMERCIAL AND RESIDENTIAL MARKETS FOR DISTRIBUTING HIGH VALUE 4K 18GBPS CONTENT FROM RACK TO DISPLAY. THESE EXTENDERS GO THE DISTANCE, NO NEED TO FIND POWER AND CASCADE EXTENDERS FOR ULTRA LONG RUNS. ADDITIONALLY AC-EXO-UNC OFFERS SOLUTIONS FOR 18GBPS DISTRIBUTION IN RESIDENTIAL, DIGITAL ENTERTAINMENT CENTERS, RETAIL STORES, AV EVENTS THAT REQUIRE RELIABLE AND LONG DISTANCE DISTRIBUTION, SUITABLE FOR DATA CENTER, CONTROL ROOMS, CONFERENCE ROOMS, SCHOOLS AND CORPORATE TRAINING ENVIRONMENT.

THIS QUICK START GUIDE WILL BE GOING THROUGH:

- INSTALLATION
- FIBER BASICS
- TRANSMITTER AND RECEIVER BREAKDOWN
- RS-232 CONFIGURATION
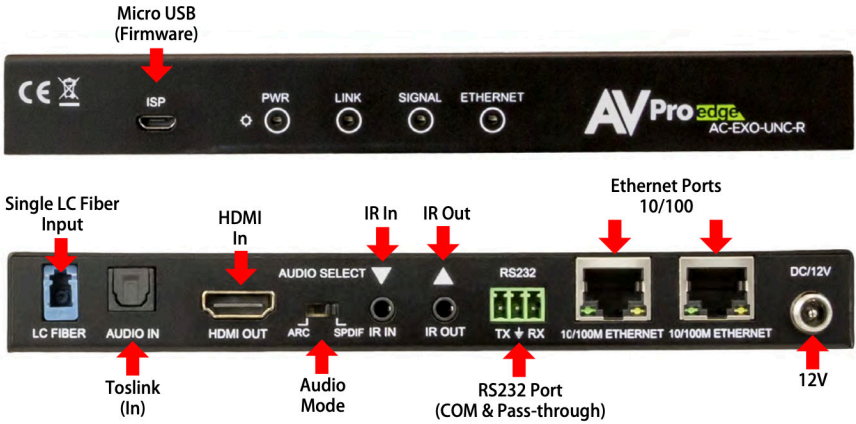- IR CONFIGURATION
- TROUBLESHOOTING

INSTALLATION

1) PLUG A HDMI CABLE FROM THE SOURCE INTO THE TRANSMITTER'S HDMI INPUT

2) PLUG FIBER FROM THE TRANSMITTER'S SINGLE LC FIBER INPUT TO THE RECEIVER'S SINGLE LC FIBER INPUT

3) PLUG A HMDI CABLE FROM THE RECEIVER TO THE DISPLAY

4) PLUG IN THE PROVIDED POWER SUPPLY INTO THE 12V POWER INPUT.
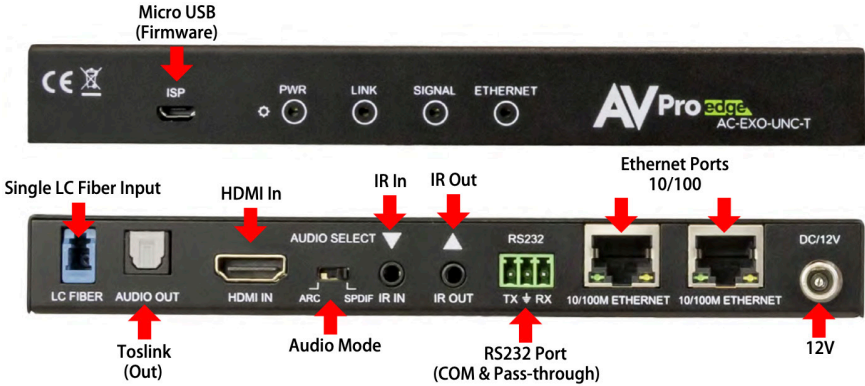
FIBER BASICS: FIBER CABLE TYPES

•SINGLE-MODE - TYPICALLY USED FOR "LONG HAULS" - TYPICALLY USED FOR LONG DISTANCE BURIED CABLE. SINGLE-MODE SHOULD BE USED IN APPLICATIONS OVER 1000FT (300M).

•MULTI-MODE - MOST COMMON IN PRO/CUSTOM ELECTRONICS. FOR SHORTER RUNS, UP TO 1000FT (300M). MULTI-MODE IS USED IN RESIDENTIAL/COMMERCIAL APPLICATIONS FOR ON PREMISE INFRASTRUCTURE.

LC (LUCENT CONNECTOR) - UNIVERSAL STYLE, MOST COMMON (USED IN NETWORKING). CAN BE TERMINATEDIN THE FIELD, SOME CONNECTORS SUPPORT MORE THAN ONE STRAIN. AC-EXO-UNCUSES THIS CONNECTOR TYPE
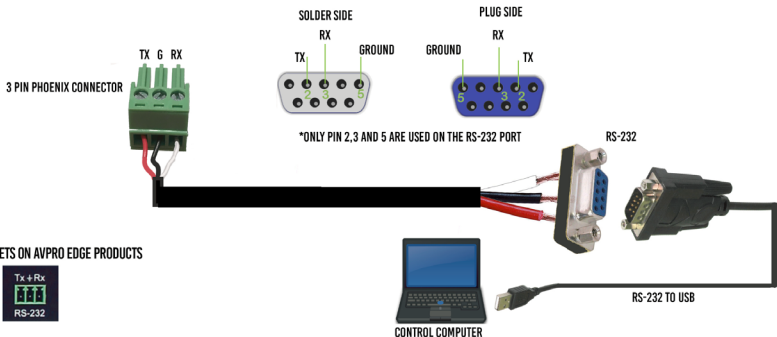
TRANSMITTER

Micro USB (Firmware)

ISP PWR LINK SIGNAL ETHERNET

AVProedge
AC-EXO-UNC-R

Single LC Fiber Input
HDMI In
IR In **IR Out**
Ethernet Ports 10/100

LC FIBER AUDIO IN HDMI OUT AUDIO SELECT ARC SPDIF IR IN IR OUT RS232 TX RX 10/100M ETHERNET 10/100M ETHERNET DC/12V

Toslink (In)
Audio Mode
RS232 Port (COM & Pass-through)
12V

RECEIVER

Micro USB (Firmware)

ISP PWR LINK SIGNAL ETHERNET

AVProedge
AC-EXO-UNC-T

Single LC Fiber Input
HDMI In
IR In **IR Out**
Ethernet Ports 10/100

LC FIBER AUDIO OUT HDMI IN AUDIO SELECT ARC SPDIF IR IN IR OUT RS232 TX RX 10/100M ETHERNET 10/100M ETHERNET DC/12V

Toslink (Out)
Audio Mode
RS232 Port (COM & Pass-through)
12V

RS-232 CONFIGURATIONS- IN ORDER TO CONNECT YOUR COMPUTER TO THE SWITCH BY RS-232 YOU NEED TO MAKE YOUR OWN CABLE WITH ONE END A PHOENIX CONNECTOR AND THE OTHER END A RS-232 PORT. IF YOUR COMPUTER DOESN'T HAVE A RS-232 INPUT, GET A USB CONVERTER AS SHOWN BELOW AND PLUG THE USB END TO ANY COMPUTER

TX G RX

3 PIN PHOENIX CONNECTOR

SOLDER SIDE
RX
TX   GROUND

PLUG SIDE
RX
GROUND   TX

*ONLY PIN 2,3 AND 5 ARE USED ON THE RS-232 PORT

RS-232

RS-232 SOCKETS ON AVPRO EDGE PRODUCTS

Tx Rx
RS-232

CONTROL COMPUTER

RS-232 TO USB

AUDIO SELECT SLIDE SWITCH: THIS IS USED TO SELECT WHERE ARC WILL COME FROM

THERE ARE TWO MODES:
•SLIDE SWITCH TO ARC (DEFAULT) - THE AUDIO SENT BACK TO THE TRANSMITTER WILL BE FROM THE HDMI AUDIO RETURN CHANNEL. THE SUPPORTED FORMATS ARE 2CH PCM, 6CH/7CH LPCM, DTS 5.1, DOLBY DIGITAL, DOLBY DIGITAL PLUS. NO DOWN-MIX, PASS THROUGH ONLY.

•SLIDE SWITCH TO SPDIF (RECOMMENDED) - THE AUDIO SENT BACK TO THE TRANSMITTER WILL BE FROM THE SPDIF INPUT. THE SUPPORTED FORMATS ARE 2CH PCM, 6CH/7CHLPCM, DTS 5.1, DOLBY DIGITAL, DOLBY DIGITAL PLUS. NO DOWN-MIX, PASS THROUGH ONLY.

IR CONFIGURATION: IR CAN BE USED IN TWO WAYS-
1. FROM RACK (USING IR-EYE): PLUG AN IR-RECEIVER EYE INTO THE "IR IN" OF THE TRANSMITTER TO PASS SIGNALS GENERATED FROM A DEVICE OR IR REMOTE.

2. FROM REMOTE END: PLUG AN IR-RECEIVER EYE ON THE AC-EXO-UNC RECEIVER (IR IN PORT) TO SEND IR SIGNALS BACK TO THE RACK AND OUT OF THE TRANSMITTER IR OUT PORT WITH AN EMITTER

TROUBLESHOOTING
•VERIFY POWER- NOTE: MUST POWER FROM BOTH SIDES
•VERIFY CONNECTIONS- CHECK THAT ALL CABLES ARE PROPERLY CONNECTED
•IR ISSUES - VERIFY CORRECT CONNECTIONS AND SETTINGS
NOTE: VISIBLY FLASHING EMITTERS MAY NOT FUNCTION PROPERLY, TRY THE IR CABLES THAT COME WITH THE KIT
•EXTRACTED AUDIO ISSUES - VERIFY AUDIO SETTINGS
•STILL HAVING ISSUES, LOOK INTO PRODUCT MANUAL FOR MORE IN DEPTH SETUP OR CONTACT US

AV Pro edge