RGB/Stereo-Audio Fiber Extenders

Extend the distance between a high-resolution stereo audio RGB source and a high-resolution stereo audio display.

FEATURES

» Send high-resolution RGB and stereo audio up to 750 meters (2460.6 ft.) over multimode fiber optic cable or up to 30 kilometers (18.6 mi.) over single-mode fiber optic cable.

» Require only a single fiber strand.

» Transmit VGA, SVGA, XGA, and WXGA.

» Support HDTV resolutions of 480p, 720p, and 1080i (RGBHV format only).

» Easy to install—require no adjustments, equalization, or de-skewing.

» Digital processing ensures crystal-clear transmission with no color pixel skewing.

Send audio and video over a single-strand fiber cable.

RGB/Stereo-Audio Fiber Extender, Transmitter (AC1021A-XMIT)

RGB/Stereo-Audio Fiber Extender, Receiver (AC1023A)

Laptop

Remote monitors with speakers

Remote monitors with speakers

OVERVIEW

Do you need to send high-resolution RGB and audio signals over single-mode or multimode fiber? Then look no further than the RGB/Stereo-Audio Fiber Extenders! They work in point-to-point, point-to-multipoint, and drop-and-repeat configurations.

These fiber extenders are ideal for applications in which you need to keep your audience informed and up to date, including:

• Broadcast studios where you need additional video and audio capacity.

• Corporate theaters for presentations and important company information.

• Stadiums for live game coverage everywhere in the facility.

• Airports kiosks with flight and retail information.

• Stores with sales, special offers, and other important information for your customers.

• Medical facilities to share images and observe procedures.

• Network operations centers.

• Secure facilities.

• And many more!

The fiber extenders are interoperable: you can use each receiver with each transmitter—so nearly any configuration you design will work.

By operating in the 1310-nm wavelength over single- or multimode fiber, these units reduce optical loss and enable you to get maximum distance in your application—up to 750 meters (2460.6 ft.) over multimode cable and a whopping 30 kilometers (18.6 mi) over single-mode cable. They maintain high-resolution video integrity with uncompressed, unscaled 24-bit RGB processing, and because the audio signals are also sent over fiber, you're not limited by copper distance restrictions or signal degradation.

The receivers feature a simple set of LEDs that give you immediate status updates, and the system doesn't require any special software or drivers—just plug them in.

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*Top: AC1021A-XMIT;
bottom: AC1021A-REC*

Audio Bandwidth — 20 Hz to 20 kHz
Distance (Maximum) — Multimode: 750 m (2460.6 ft.);
    Single-mode: 30 km (18.6 mi.) (Optical loss budget of 0–15 dB
    must not be exceeded regardless of distance.)
Wavelength — 1310 nm
CE Approval — Yes
Connectors — AC1021A-XMIT, AC1021A-REC: Video: (1) HD15 F;
    Audio: (1) 3.5-mm stereo jack;
    Fiber: (1) ST®;
    AC1022A: Video: (1) HD15 F;
    Audio: (1) 3.5-mm stereo jack;
    Fiber: (4) ST;
    AC1023A: Video: (4) HD15 F;
    Audio: (4) 3.5-mm stereo jack;
    Fiber: (1) ST;
    AC1024A: Video: (1) HD15 F;
    Audio: (1) 3.5-mm stereo jack;
    Fiber: (2) ST;
    All: Power: (1) terminal block

Indicators — LEDs: (1) Power, (1) Video, (1) Audio
Power — AC1021A-XMIT, AC1021A-REC: 9–24 VAC or VDC, 5 W;
    AC1022A: 95–250 VAC, 9 W;
    AC1023A–AC1024A: 9–24 VAC or VDC, 8 W
Size — AC1021A-XMIT, AC1021A-REC: 1.2"H x 5"W x 5.3"D
    (3 x 12.7 x 13.5 cm);
    AC1022A: 1.8"H x 16.8"W x 10"D (4.6 x 42.7 x 25.4 cm);
    AC1023A–AC1024A: 1.2"H x 6.5"W x 8"D (3 x 16.5 x 20.3 cm)
Weight — AC1021A-XMIT, AC1021A-REC: 0.6 lb. (0.3 kg);
    AC1022A: 5.5 lb. (2.5 kg);
    AC1023A–AC1024A: 1.2 lb. (0.5 kg)

What's included

AC1020A:
✦ XMIT unit
✦ REC unit
✦ (2) power supplies
✦ (2) 6-ft. (1.8-m) HD15 male to HD15 male VGA cables
✦ (2) 6-ft. (1.8-m) 3.5-mm plug to 3.5-mm plug stereo
    audio cables
✦ 6-ft. (1.8-m) 3.5-mm plug to (2) RCA male stereo audio cable
✦ User's manual

NOTE: Transmitters and Receivers can also be ordered individually.

Item	Code
RGB/Stereo-Audio Fiber Extenders	
Transmitters	
(1) ST Optical Output, (1) RGB Input, (1) 3.5-mm Audio Jack	
	AC1021A-XMIT
(4) ST Optical Outputs, (1) RGB Input with Loop-Through,	
(1) 3.5-mm Audio Jack with Loop-Through	**AC1022A**
Receivers	
(1) ST Optical Input, (1) RGB Output, (1) 3.5-mm Audio Jack	
	AC1021A-REC
(1) ST Optical Input, (1) 1 x 4 RGB Output,	
(1) 3.5-mm Audio Jack	**AC1023A**
(1) ST Optical Input, (1) ST Optical Loop-Through,	
(1) RGB Output, (1) 3.5-mm Audio Jack	**AC1024A**
Kit (AC1021A-XMIT and AC1021A-REC)	**AC1020A**

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