Universal 1RU Rack Mount

HDBaseT Extenders / AV Over IP Extenders / Computers

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RS-120 Series

The RS-120 Series is a product family with three different 1RU rack mount chassis and nine swappable modules which provides numerous configurations and functionalities to meet ever changing requirements of ProAV events. The nine swappable modules include HDBaseT 2.0 transmitter, receiver, AV over IP transmitter and receiver with Copper or Fiber interface, computer module and video splitter modules. The RS-120 series minimizes installation time and effort while also providing a significant maintenance advantage and configuration flexibility. The transmitter, receiver, splitter or computer modules can be swapped out in seconds.

ARD-1006 Swappable Modules

The nine swappable modules include HDBaseT 2.0 transmitter, receiver, AV over IP transmitter and receiver with Copper or Fiber interface, computer module and video splitter modules. All nine modules have common video and I/O connections that make it possible for any module to go into one of the RS-120 Series chassis. Two HDBaseT 2.0 transmitter / receiver modules, two AV over IP transmitter / receiver modules with Cat 6 interface, two AV over IP transmitter / receiver modules with Fiber interface to meet long distance extension requirements, two quad-output video splitter modules and one computer module.
ARD-1006-B31-TX
ARD-1006-B31-TX is a fiber interface AV over IP transmitter module featuring a front accessible HDMI® Loopback output, a Gigabit Ethernet pass through port, an IR control port, plus PSE HDBaseT output with PoE capability.

ARD-1006-B31-RX
ARD-1006-B31-RX is a fiber interface AV over IP receiver module featuring a 2-port USB 2.0 hub and a Gigabit Ethernet pass through port, an IR control port along with an audio output jack.

AMP-1006-S04-SDI
AMP-1006-S04-SDI is a four SDI output splitter that supports SD-SDI, HD-SDI and 3G-SDI. The unit supports multiple color spaces: RGB or YCbCr 4:4:4 sampled, YCbCr 4:2:2 sampled, 8-bit, 10-bit, and 12-bit Deep Color.

MicroBox-1100A-E01
Designed as a compact, rack mountable computer to serve as a system controller, Arista’s RS-120-E01 computer is equipped with the company’s MicroBox-1100A-E01 computer module running Microsoft Windows. The system features an Intel Atom E3845 1.9GHz quad-core CPU and up to 8GB DDR3 memory. The accessible ports on the front of the RS-120-E01 include a four port USB 3.0 hub, one RS-232/422/485 BIOS selectable COM port, a CFast slot, and a VGA port. The unit’s rear accessible ports include one HDMI port, one USB 2.0 connector, one RS-232/422/485 BIOS selectable COM port, an audio out jack, and a power on/off switch.
The RS-121 is a 19” 1RU rack mount chassis for a single ARD-1006 transmitter, receiver, AMP-1006 video splitter module or MicroBox computer module. The nine swappable modules provide numerous configurations and functionalities to meet ever changing requirements of ProAV events. The nine swappable modules include HDBaseT 2.0 transmitter, receiver, AV over IP transmitter and receiver with Copper or Fiber interface, computer module and video splitter modules. The RS-121 can also be wall mounted using a wall mount bracket. This provides a significant maintenance advantage and configuration flexibility. In case of a failure, the transmitter, receiver, splitter or computer module can easily be swapped out in seconds.

No matter which module is installed, the rear I/O panel of the RS-121 provides one HDMI, one RS-232, and one USB port connection. The rear I/O panel of the RS-121 has an ON/OFF switch for the computer module option. The rear I/O panel also has one 3.5mm audio jack which is connected to the audio output of the computer module.

The RS-121 can act as a transmitter or receiver module, as well as a video splitter or computer module, depending on which swappable module is installed. With an ARD-1006-A07-TX, it becomes an HDBaseT transmitter (RS-121-A07-TX). And with an ARD-1006-A31-TX option on the RS-121 chassis, it becomes an AV over IP transmitter with Copper network interface (RS-121-A31-TX). When greater distance is required, the RS-121 with ARD-1006-B31-TX installed can extend up to 1,000 feet with multi-mode fiber (RS-121-B31-TX). The RS-121 becomes an HDBaseT receiver (RS-121-A07-RX), when ARD-1006-A07-RX is installed on the RS-121 chassis. With an ARD-1006-A31-RX installed, the RS-121 becomes an AV over IP receiver with Copper network interface (RS-121-A31-RX). When greater distance is required, the ARD-1006-B31-RX can extend up to 1,000 feet with multi-mode fiber (RS-121-B31-RX).

With the video splitter module, the RS-121 then becomes a 1RU rack mount video splitter. There are two types of splitters that Arista offers: a quad HDMI 2.0 video output splitter (RS-121-S04-00) and a quad 3G-SDI video output splitter (RS-121-S04-01). For the quad HDMI splitter option, use the AMP-1006-S04. And for a quad 3G-SDI video output splitter, the AMP-1006-S04-SDI will need to be installed.

The RS-121 can also be a 1U rack mount computer (RS-121-E01) when computer module (MicroBox-1100A-E01) is installed. The system features an Intel Atom E3845 1.9GHz quad-core low power CPU and up to 8GB DDR3 memory. The accessible ports on the front of the RS-120-E01 include a four port USB 3.0 hub, dual Gigabit Ethernet, one RS-232/422/485 BIOS selectable COM port, a CFast slot, and a VGA port. The unit’s rear accessible ports include one HDMI port, one USB 2.0 connector, one RS-232/422/485 BIOS selectable COM port, an audio out jack, and a power ON/OFF switch.
The RS-122 is a 19” 1RU rack mount chassis that can house a combination of any two ARD-1006 transmitters, receivers, AMP-1006 video splitter modules or MicroBox computer modules. Besides the power supply, there is no connection between the two modules. The two modules can be any two of the nine models of swappable modules: HDBaseT 2.0 transmitter, receiver, AV over IP transmitter and receiver with Copper or Fiber interface, computer module and video splitter modules.

The rear I/O panel of RS-122 provides two independent connections for HDMI, RS-232, and USB port. The rear I/O panel of the RS-121 has an ON/OFF switch for the computer module option. If two computer modules are used, there is one ON/OFF switch for each option. The rear I/O panel also has one 3.5mm audio jack which is connected to the audio output of the computer module.

Based on the application requirements, RS-122 can have two modules in any combination of HDBaseT transmitter, receiver, AV over IP transmitter, receiver, video splitter and computer modules. RS-122 centralizes multiple transmitters and receivers onto rack mountable space and extends computers, server’s screens to the control room.
The RS-123 is a 19” 1RU rack mount chassis that can house two modules and are inter-connected which provides a different functionality compared to the RS-122. The RS-123 offers two set of configurations: The first configuration is transmitter (ARD-1006-A07-TX) + computer (MicroBox-1100A-E01). With the HDBaseT 2.0 transmitter and computer installed in RS-123, the computer display can be extended up to 330 feet away. The AV over IP transmitter (ARD-1006-A31-TX) and computer (MicroBox-1100A-E01) can be used to switch the computer display to different LCD monitors. If further than 330 feet distance is required, the ARD-1006-B31-TX with fiber interface is an option.

The second configuration is receiver (ARD-1006-A07-RX) + splitter (AMP-1006-S04). With the HDBaseT 2.0 receiver and splitter installed in the RS-123, you have the ability to display a remote video signal to multiple LCD monitors. And with the AV over IP receiver (ARD-1006-A31-RX) and splitter (AMP-1006-S04) installed, you have the ability to display a selected video source from multiple video sources to multiple LCD monitors. If further than 330 feet distance is required, ARD-1006-B31-RX with fiber interface can be used.

Transmitter + Computer

**ARD-1006-A07-TX**
ARD-1006-A07-TX is a copper interface HDBaseT transmitter module featuring a front accessible HDMI® Loopback output, a 2-port 10/100 Mbps Ethernet pass through hub, IR control port, plus PSE HDBaseT output with PoE capability.

**ARD-1006-A31-TX**
ARD-1006-A31-TX is a copper interface AV over IP transmitter module featuring a front accessible HDMI® Loopback output, a Gigabit Ethernet pass through port, an IR control port along with an audio input jack.

**ARD-1006-B31-TX**
ARD-1006-B31-TX is a fiber interface AV over IP transmitter module featuring a front accessible HDMI® Loopback output, a Gigabit Ethernet pass through port, an IR control port along with an audio input jack.

MicroBox-1100A-E01
Designed as a compact, rack mountable computer to serve as a system controller, Arista’s RS-120-E01 computer is equipped with the company’s MicroBox-1100A-E01 computer module running Microsoft Windows. The system features an Intel Atom E3845 1.9GHz quad-core CPU and up to 8GB DDR3 memory. The accessible ports on the front of the RS-120-E01 include a four port USB 3.0 hub, dual Gigabit Ethernet, one RS-232/422/485 BIOS selectable COM port, a CFast slot, and a VGA port. The unit’s rear accessible ports include one HDMI port, one USB 2.0 connector, one RS-232/422/485 BIOS selectable COM port, an audio out jack, and a power on/off switch.

The transmitter + computer configuration is perfect for applications where computers and displays need to be kept in different locations. Applications including control rooms, cyber cafes or a harsh environment plant floor where computers are kept in restricted access areas and/or environmentally controlled areas.
AMP-1006-S04 is an HDMI 2.0 input, quad HDMI 2.0 output splitter module that supports 4K resolution / 60 Hz (4:4:4) signal and backward compatible with lower resolution HDMI 1.4 and HDMI 1.3 /4K @30Hz and 1080p displays.

AMP-1006-S04-SDI is a four SDI output splitter that supports SD-SDI, HD-SDI and 3G-SDI. The unit supports multiple color spaces: RGB or YCbCr 4:4:4 sampled, YCbCr 4:2:2 sampled, 8-bit, 10-bit, and 12-bit Deep Color.

AMP-1006-S04 is an HDMI 2.0 input, quad HDMI 2.0 output splitter module that can display 4K video on four 2160p LCD displays simultaneously. AMP-1006-S04-SDI is an HDMI input, quad 3G-SDI output splitter module that can display 1920 x 1080 video on four 1080p LCD displays simultaneously. The receiver + splitter configuration enables remote signal video source to be displayed on up to four LCD displays.