



**ATLONA**  
Connecting technology to your world

## User Manual

# 1 x 10 VGA with Stereo Audio Distribution Amplifier over CAT5/6 compatible with AT-VGA300RL AT-VGA10SS



BACK



FRONT

Toll free: 1-877-536-3976  
Local: 1-408-962-0515



[www.atlona.com](http://www.atlona.com)

## TABLE OF CONTENTS

1. Introduction	2
2. Package Contents	2
3. Features	2
4. Connection and Operation	2
5. Specification	3
6. PJ45 Pin Configuration	3
7. Troubleshooting	4
8. LED Indicators	5
9. DIP Switch	5
10. Safety Information	6
11. Warranty	7
12. Atlona Product Registration	8

## INTRODUCTION

The Atlona AT-VGA10SS is 1 x 10 VGA with Audio Distribution Amplifier designed to accept a video and audio feed from VGA source such as computer, media player or digital signage player and distribute the same feed to 10+ locations. The VGA10SS is featured with 1 x VGA/Audio input and 10 x CAT5/6/7 outputs which could be connected with Atlona AT-VGA300RL receiving modules up to 1000ft away.

The VGA10SS is also featured with local VGA and audio outputs, meant to either connect to a local display for monitoring or daisy chaining to another VGA10SS amplifier.

**Note:** Receiving models AT-VGA300RL are a required accessory

## PACKAGE CONTENTS

- 1 x AT-VGA10SS (transmitter module)
- 1 x 5v Power supplies (Universal 110/240V)
- 1 x Set of Wall Mounting Ears
- 1 x Instructions manual

## FEATURES

- Transmits VGA with Stereo Audio up to 1000ft away to 10+ locations
- Supports Full HD Video with resolutions up to 1920x1200
- Supports high resolution Video VESA: 640x480, 800x600, 1024x768, 1280x800, 1280x768, 1280x1024, 1680x1050, 1600x1200, 1920x1080, 1920x1200
- Compatible with receiving modules:
  - a. AT-VGA300RL (VGA + Stereo Audio up to 1000ft)
- DDC adjustments (Internal and Extender modes can be used)
- Supports all VESA formats which is perfect when used with specialized projectors or commercial LCD panels.
- Local VGA/Audio output for local monitoring display or daisy chaining ability to go to another VGA10SS
- Rack Mountable – 1U

## CONNECTION AND OPERATION

1. Connect the VGA Source e.g., Computer, Video Codec, switch to the AT-VGA10SS (transmitting unit)
2. Connect the VGA Display e.g., Projector, LCD/LED or a switch to (receiving unit) – (receiving unit is sold separately)
3. Terminate the CAT5, 6 or 7 wire with 568B termination and use a tester to make sure all pins are wired correctly before connect it to the VGA10SS transmitter.
4. Connect the power supplies to both transmitter and receiver and the video and in a few seconds the video should appear on the display.

## SPECIFICATIONS

Inputs	1 x HD15 and 1 x Stereo Audio (1/8-inch)
Outputs	10 x RJ45, 1 x HD15 and 1 x Stereo Audio (1/8-inch)
Supported Resolutions	all VESA up to 1920x1200
Video bandwidth	550MHz(-3dB)-loop out and 370Mhz Cat5/6
EDID Compliant	Yes (internal and external)
Supports high resolution Video VESA	640x480, 800x600, 1024x768, 1280x800, 1280x768, 1280x1024, 1680x1050, 1600x1200, 1920x1080, 1920x1200
Distance	1920x1200 @400ft; 1600x1200 @ 950ft; 1280x1024 @1050ft;1024x768@1100ft
Power Consumption (max.)	1.5A
VGA Connector	HD15 female
Audio Connector	1/8-inch (3.5mm)
Power Supply	5V/2A (110/240 universal)
Dimensions (inch)	18.97x6.96x1.73 (Lx W x H) (1U)
Weight	4.1 lb
Operating Temperature Range	-5 to +35°C (-41 to +95 °F)
Operating Humidity Range	5 to 90 % RH (no condensation)

## RJ45 PIN CONFIGURATION

1. Orange-white	Video Blue -
2. Orange	Video Blue +
3. Green-white	Video Green -
4. Blue	Audio +
5. Blue-white	Audio -
6. Green	Video Green +
7. Brown-white	Video Red -
8. Brown	Video Red +



## TROUBLESHOOTING

### 1. No Signal or it is going in and out:

- Please test your RJ45 cables with a Fluke or similar tester to make sure that all the wires are connected and the distance is within the limits.
- If you are using patch panel or and RJ45 wall plates, the distance will be reduced, please do a direct connection bypassing all additional equipment.
- Please try to re-terminate your CAT5/6/7 wire to 568B
- Change the resolution on the computer to 800x600 or 1024x768
- Change frequency to 60Hz
- Try using STP Cable

### 2. Image is tilted:

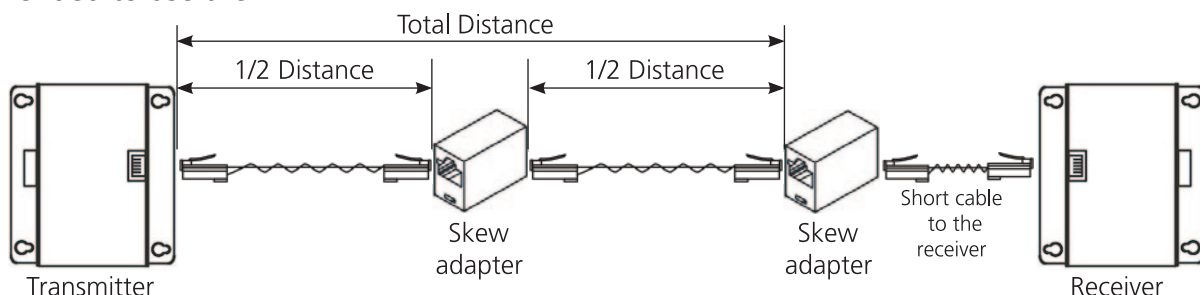
- Change the resolution on the computer to 800x600 or 1024x768
- Change frequency to 60Hz
- Try using STP Cable

### 3. No Video Signal on the Display or Signal is going in and Out:

- Please test your RJ45 cables with a Fluke or similar tester to make sure that all the wires are connected and the distance is within the limits.
  - If you are using patch panel or and RJ45 wall plates, the distance will be reduced, please do a direct connection bypassing all additional equipment.
  - Please try to re-terminate your CAT5/6/7 wire to 568B
  - If your sources is a computer (laptop or desktop), please enable the VGA output.
- Windows computers: Select Properties → Select Display resolutions → Select Detect Display → Select second Display → Select Extended Display check box → Select most appropriate resolution (most basic would be 1024x768)
  - Mac Computers: Select Settings → Select Displays → Select Detect Display → Select Arrangement → Select Mirror Displays → Select most appropriate resolution (most basic would be 1024x768)

### 4. Ghosting effect

a. Some lower end CAT5/6 cables may have a different twist for internal cables which will result different signals arrive at the destination at different time and therefore cause Ghosting effect. The ghosting effect is basically letters doubling up or incorrect colors. We include 2 x Skew adapters in the package, it is recommended to use them.





## LED INDICATORS

BLUE	Power ON/OFF.
RJ45 Green color	ON/OFF Video Signal
Flash	Not-Detected Input Source
RJ45 Yellow	ON/OFF Digital Audio Signal
Flash	Audio input distortion

## DIP SWITCH

- DDC ← Use external (Loop Out) DDC.  
 → Use Internal default EDID.

If external mode is selected, please make sure that you had a display connected to the local VGA output. After 1min, the VGA10SS will auto-save EDID of the monitor and therefore the monitor can be disconnected if needed to be by the application.

- AUDIO ← select digital audio input (disabled currently)  
 → select analog audio input

Compatible with following receiver module:

### AT-VGA300RL



## SAFETY INFORMATION

### Safeguards



To reduce the risk of electric shock, do not expose this product to rain or moisture



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

### Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-PRO2HD88M. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

## WARRANTY

### Limited Warranty

Atlona Technologies warrants that (a) its products (the AT-PRO2HD88M) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

### Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

### No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

### No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss. Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.



## **ATLONA PRODUCT REGISTRATION**

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

**To register go to:** <http://www.atlona.com/registration>