

Overview

The HPX-AV100-RGB+A Hydraport Composite AV Module (FG552-11) is designed to be used in conjunction with the HPX-1600 Hydraport Base Assembly. See specifications for module requirements. For more information on the HPX-1600, refer to www.amx.com.

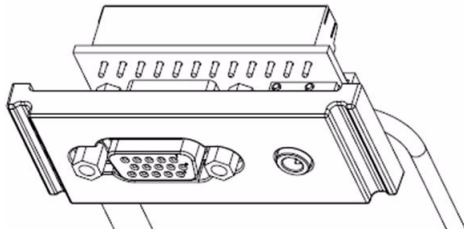


FIG. 1 HPX-AV100-RGB+A COMPOSITE AV MODULE

The HPX-AV100-RGB+A provides user-accessible RGB (VGA HD-15) Video and Stereo connections on the face of the Hydraport system. The HPX-AV100-RGB+A provides connection from the user's source equipment to a remote client such as projector, monitor, display or stereo sound system.

Product Specifications

HPX-AV100-RGB+A SPECIFICATIONS			
Dimensions (HWD)	25mm x 52mm x 25mm (0.98" x 2.05" x 0.98")		
Weight:	31 g (1.09 oz.)		
Enclosure:	Matt black finished face plate (Polycarbonate plastic).		
Front Connections:	HD-15 RGB (VGA) style connections for: <ul style="list-style-type: none"> • RGB Video (VGA) • Left Audio • Right Audio 		
Rear Connections:	12 Position Phoenix terminal block with connections for: <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Left Audio Signal + • Right Audio Signal + • Audio Ground - • Horizontal Sync + • Vertical Sync + • Sync Ground - </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> • Red Video Signal + • Red Video Ground - • Green Video Signal + • Green Video Ground - • Blue Video Signal + • Blue Video Ground - </td> </tr> </table>	<ul style="list-style-type: none"> • Left Audio Signal + • Right Audio Signal + • Audio Ground - • Horizontal Sync + • Vertical Sync + • Sync Ground - 	<ul style="list-style-type: none"> • Red Video Signal + • Red Video Ground - • Green Video Signal + • Green Video Ground - • Blue Video Signal + • Blue Video Ground -
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Compatibility:	<ul style="list-style-type: none"> • HPX-1600 Hydraport Base Assembly • D-Sub HD-15 RGBHV (VGA) Video Source • 3.5mm Jack style Stereo Audio Source 		
Included Accessories:	Installation Guide		

Installation

Important! Only a professional, AMX-qualified installer should perform this installation. Installation must conform to all local codes. This product may not be installed by the end-user.

Tools Required

- Wire cutting pliers
- Wire strippers
- Small flat blade screw driver
- Phillips Screw Driver (to access Hydraport Base Assembly)

CAUTION! Ensure that the AC Power cord is disconnected from IEC C-14 power inlet connector on the Hydraport Base Assembly prior to disassembly of the Hydraport Base assembly or installation of the HPX-AV100-RGB+A Module (see FIG. 2).

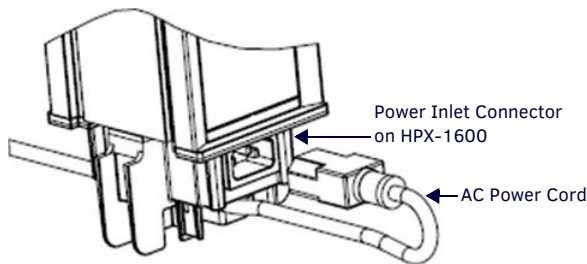


FIG. 2 HPX-1600 - POWER INLET CORD REMOVED

Step 1 - Backside Termination

Before installing the module into the Hydraport Base Assembly, the backside terminations of the module must be completed. This backside termination requires connecting three coaxial cables (or equivalent) to the 6 position phoenix terminal block located on the back of the module.

Note that for terminations for which the far end of the cable is not accessible either because the cable has been run under carpet, in a conduit or structure, or is otherwise fixed, the cable must be placed through the retaining ring (note the orientation of the retaining ring) then through the mounting surface from bottom to top, then to the module - before the module is placed into the base assembly (FIG. 3).

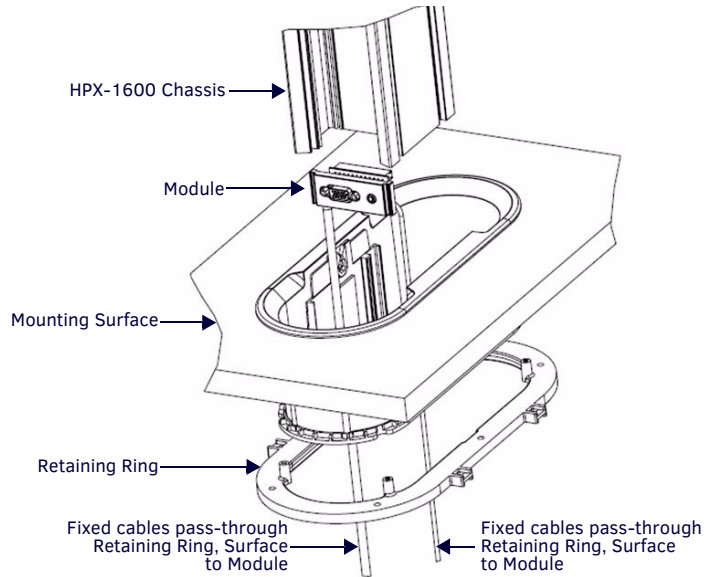


FIG. 3 FIXED CABLE PASSING THROUGH RING, TABLE AND INTO THE HPX-1600 CHASSIS

Step 2 - Provide a Service Loop

Ensure there is sufficient cable length to provide a service loop for the cable after the module is installed into the Hydraport Base Assembly (FIG. 4).

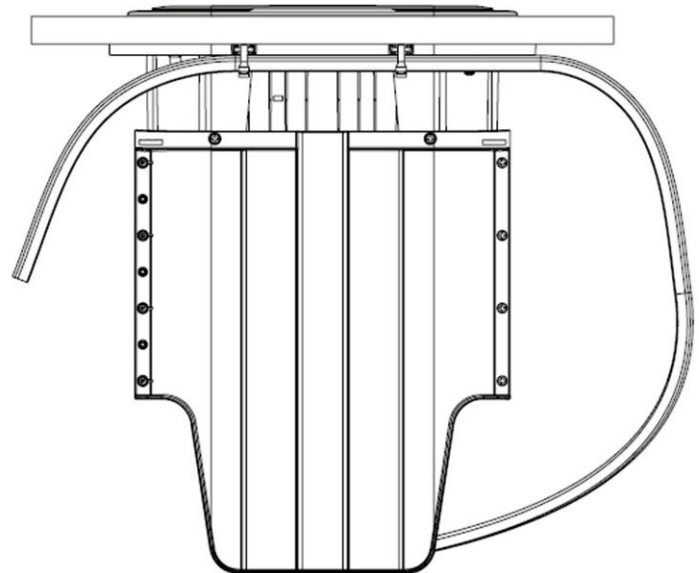


FIG. 4 SECURED SERVICE LOOP

Note that the Hydraport Base Assembly travels up and down approximately 228.6 mm (9") during operation.

The service loop must accommodate this motion and provide for securing the cable to the Hydraport Base Assembly for strain relief.

For more detailed information, please refer to the HPX-1600-XX Hydraport Base Assembly Instruction Manual.

Step 3 - Prepare and Connect Wiring

1. If using a VGA cable, remove approximately 35mm (1.35 in) of the outer jacket of the cable.
 - Remove approximately 25mm (1 in) of the outer jacket of each coaxial cable.
 - Remove approximately 4mm (.18 in) of the core wire insulation.
 - If the shielding of the coaxial cable is braided wire, twist the shield wires for each coaxial cable to a smaller diameter sufficient to fit within the phoenix terminal block.
 - If the shielding of the coaxial cable is foil with a drain wire, separate the drain wire for installation into the Phoenix terminal block.
2. Insert the shielding conductor and the signal wire for each signal (Red, Green, Blue, Horizontal Sync, Vertical Sync, Left Audio, Right Audio) into the corresponding terminal.
3. Secure each connection using the terminal screw, according to the schematic provided in FIG. 5:

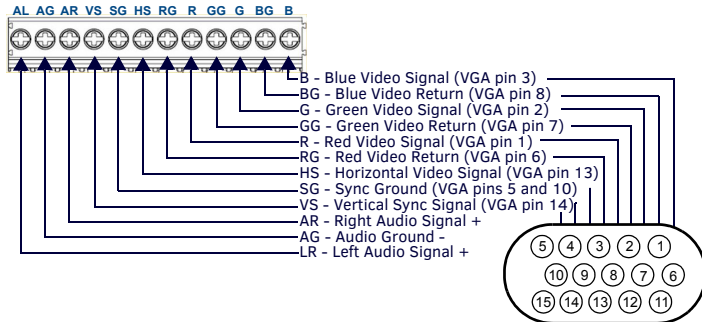


FIG. 5 HPX-AV100-RGB+A RGB AV MODULE - WIRING SCHEMATIC

Step 4 - Secure the Cable To the Module

Using two small provided tie wraps, secure the cable(s) to the circuit card on the backside of the module, such that the cable exits to the side of the module (FIG. 6).

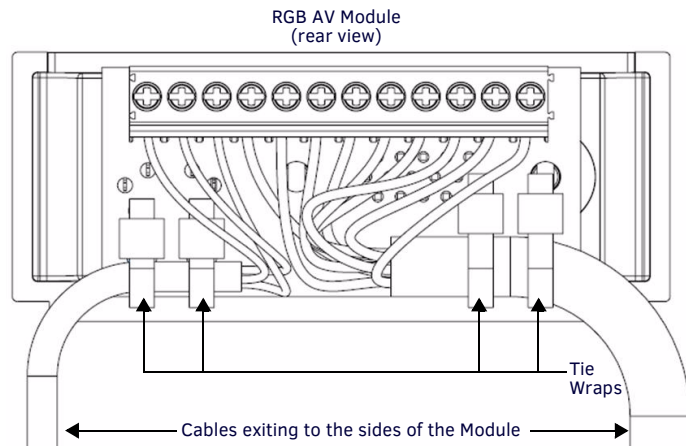


FIG. 6 CABLES SECURED TO THE MODULE

Step 5 - Insert the Module Into the HPX-1600 Chassis

Insert the module into the main chassis of the HPX-1600 Base Assembly. Note the position of module interlock tab: this tab should face towards the bottom of the HPX-1600 Base assembly when installed in its mounted position (FIG. 7).

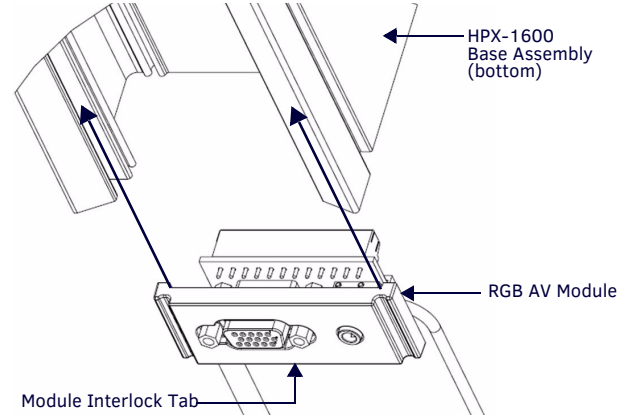


FIG. 7 INSERTING THE RGB AV MODULE INTO THE HPX-1600 CHASSIS

Step 6 - Install the Bottom Cover On the HPX-1600

Note: Install any remaining modules into the Hydraport Base Assembly before installing the Bottom Cover on the HPX-1600.

1. Install the bottom cover (including the Power Inlet Assembly) onto the bottom of the main frame of the Hydraport Base Assembly. The cables from the HPX-AV100-RGB+A Composite AV Module as well as all other modules (except AC Power Outlets) will exit the bottom of the Hydraport Base Assembly through one of four square passages on either side of the bottom cover.
2. After the bottom cover is secured using four screws, secure the cables to the corresponding tab near each opening using a small cable tie (FIG. 8).

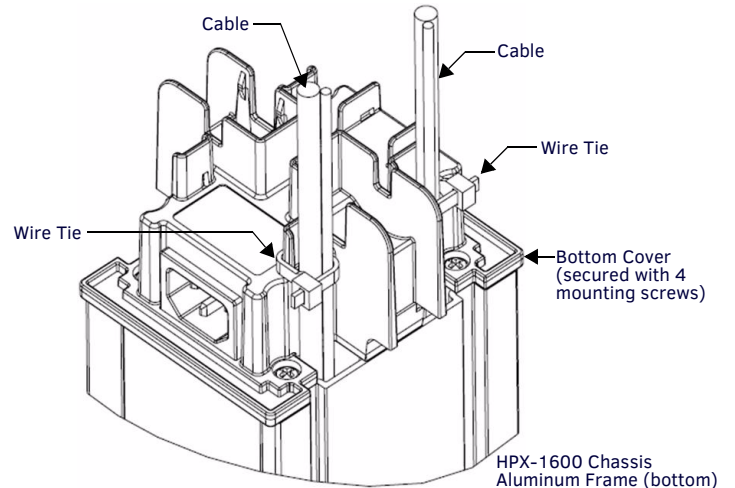


FIG. 8 BOTTOM COVER - INSTALLED WITH CABLES EXITING AND SECURED

