

### Overview

The Solecis AVS-SL-0601-848 (**FG1330-1501-04**) is a wideband high resolution 6x1x2 HD-15 and Audio switcher for all computer presentation applications up to UXGA.

The AVS-SL-0601-848 incorporates two simultaneously driven outputs for connection to long cable runs. Control of the AVS-SL-0601-848 is from the front panel, via RS232 or it can be set to operate in auto-switch mode which will switch the source to the last detected sync input.

The audio switcher will follow the video selected input and is stereo unbalanced-to-balanced out.

The AVS-SL-0601-848 features an internal 100-240V power supply and is housed in a 1U metal enclosure.

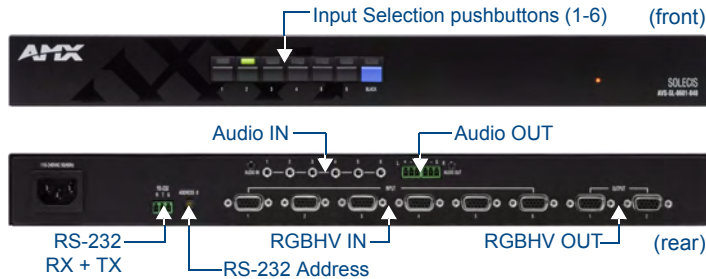


FIG. 1 Solecis AVS-SL-0601-848

### Product Specifications

Solecis AVS-SL-0601-848 Specifications	
<b>RGB Input</b>	
Number:	6
Connectors:	HD-15
Level:	Analog
Max Level:	1V p-p
Impedance:	75 ohm
<b>Sync Input</b>	
Type:	Analog or TTL
Max. Level:	5V p-p
Impedance:	75 ohm
<b>Audio Input</b>	
Number:	6
Connectors:	3-pole 3.5mm
Type:	Stereo unbalanced analog
Max. Level:	2V p-p
Impedance:	47k ohm
RGB Video Bandwidth:	400MHz -3dB
RGB Return Loss:	-38dB@10MHz, -20dB@100MHz
Adjacent Input Crosstalk:	-80dB@10MHz, -70dB@100MHz
Audio Freq. Response:	20Hz - 50KHz
Sync Processing:	None
<b>RGB Output</b>	
Number:	2 (Distributed)
Connectors:	HD-15
Level:	Analog
Gain:	Unity
Impedance:	75 ohm
<b>Sync Output</b>	
Level:	TTL
Impedance:	75 ohm

Solecis AVS-SL-0601-848 Specifications (Cont.)	
<b>Audio Output</b>	
Number:	1
Connector:	Balanced captive-wire connector
Type:	Stereo unbalanced analog
Gain:	Unity
Impedance:	600 ohm
<b>Control</b>	
Switch:	<ul style="list-style-type: none"> <li>• Front panel</li> <li>• RS232</li> <li>• Auto-switch</li> </ul>
Connectors:	3-pole 3.5mm
Protocol:	Baud Rate-9600, Data Bits-8, No Parity, Stop Bit-1
Auto-Switch:	On next Vertical Sync detected
<b>Power</b>	
Input Voltage:	100-240V AC, 50/60Hz
Connector:	IEC
Power Consumption:	15W
Included Accessories:	<ul style="list-style-type: none"> <li>• Detachable Rack Mount</li> <li>• Mains Lead</li> </ul>
Dimensions (HWD):	<ul style="list-style-type: none"> <li>• 1.69" x17.36" x 6.85" (4.3cm x 44.1cm x 17.4cm)</li> <li>• 1 Rack Unit</li> </ul>
Weight:	6.94 lbs. (3.15 kg)
Certifications:	<ul style="list-style-type: none"> <li>• CE</li> <li>• UL60950</li> <li>• FCC class B, part 15</li> <li>• RoHS/WEEE compliant</li> </ul>

### Safety Instructions

Please read these instructions before using your AMX Solecis device. Failure to comply with these instructions could result in fire, electrical shock, personal injury, death, or damage to the equipment.

#### Power Source

Use only a 3-wire grounding type source. The power source should not exceed 264VAC. Do not remove under any circumstances the ground wire.

#### Power Cord

Use only the cord shipped with the unit. Do not use the cord if it has become damaged or frayed. Contact your AMX Solecis dealer if you need to replace the power cord.

#### Grounding

The interface is grounded through the grounding conductor on the power cord. To avoid electric shock plug the power cord into a properly wired receptacle. Do not defeat the purpose of the grounding-type plug.

#### Fuse

For protection against the risk of fire, use only a fuse of the same rating and type.

#### Liquid Spills

Do not set drinks on top of the unit or immerse the unit in liquid.

#### Do Not Disassemble

This device contains no user serviceable parts. All servicing must be performed by a qualified service technician.

#### For Safety Reasons

- Do not place the unit on an unstable surface.
- Do not use near water or sources of heat.
- Use only recommended attachments.
- Use the type of power supply as specified.
- Unplug the power to the unit and refer servicing to qualified personnel under the following conditions:
  - If liquid has been spilled or the unit has been exposed to rain or water.
  - If it does not operate normally when the operating instructions are followed or if it exhibits a distinct change in performance indicating a need for service.
  - If the unit has been dropped or the cabinet damaged.

## Video Pin Connectors

FIG. 2 provides the pin layout for the RGBHV HD-15 connectors:

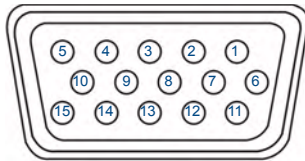


FIG. 2 RGBHV HD-15 connector

The pin configuration for the HD-15 (video) connector are as follows:

1 - RED	9 - n/c
2 - GREEN	10 - SYNC GROUND
3 - BLUE	11 - n/c
4 - n/c	12 - n/c
5 - n/c	13 - H SYNC
6 - RED GROUND	14 - V SYNC
7 - GREEN GROUND	15 - n/c
8 - BLUE GROUND	

## Audio 3.5mm 3-Pole Connectors

The pin configuration for the 3.5mm 3-pole audio connectors are as follows:

- Tip L
- Ring R
- Sleeve Ground

## Operation

### Manual Operation

1. Connect Mains to unit. BLANK/MUTE LED will light.
2. Press button 1 to 6 to select required input source. The corresponding LED will light.
3. To Blank or Mute the outputs press the BLANK/MUTE button.

### Auto-Switch Mode

1. Set the HEX switch on the rear of the unit to F.
2. Connect Mains to unit. BLANK/MUTE LED will light.
  - The unit will scan the Vertical sync inputs from 1 to 6 and if any RGBHV input sources are active the unit will switch to the last detected input. The corresponding LED will light.
  - Input sources are changed either from the front panel or by connecting a RGBHV source to any of the inputs. The unit will switch and hold to the last detected input or button selected.

3. To switch back to an active input either select the input from the front panel or temporarily disconnect the input from the PC and then reconnect.

Alternatively, if using a Laptop, toggle through the Video modes until the Video Output is turned off then on again. (usually by holding the FN key with a Function key.)

**Note:** For the auto-switch function to operate the Input sources must be RGBHV as the unit searches for any newly introduced Vertical sync.

### Audio Switching

The audio inputs will switch to the corresponding RGBHV selected input.

## RS232 Control

Options are available for Front Panel operation and RS232 from AMX control systems. Alternatively a Computer with a RS232 output can be used.

1. Connect the unit as previously described in Manual Operation.
2. Connect also the RS232 connection RX TX and GND.

In such cases the programming protocol is as follows:

### RS232 DATA

- Baud Rate: 9600
- Parity: none
- Data: 8 Bits
- STOP: 1 Bit

All units can be individually addressed 0 - 15 by setting the HEX switch on rear of unit.

RS232 connection on unit is by 3-Pin Socket:

### PC Serial Port D9

- Pin 2: to Switcher TX
- Pin 3: to Switcher RX
- Pin 5: to Switcher GND

Several units may be linked together by connecting the signal lines in parallel. Units can then be globally or individually addressed.

### Input Switch Commands

Byte 1 (Header)	Byte 2 (Address)	Byte 3 (Input)
FC	00 to 0F	01 to 06 (00 for Blank/Mute)

Each time the unit switches to a new input the following return code is transmitted from the TX Port.

Byte 1	Byte 2	Byte 3
C8	Address No.	Current Input No.

**Note:** Byte numbers are shown in Hexadecimal.

### Full Interrogate

This command is an input query, and it returns the current input:

Sending this command:

Byte 1 (Header)	Byte 2 (Address)	Byte 3 (Input)
FC	00 to 0F	80

The unit will return the following information:

Byte 1	Byte 2	Byte 3	Byte 4 (null)	Byte 5 (null)
C8	00 to 0F	0 - 06	FF	FF

### Identity Command

This command is a model query, and it returns the model number.

Sending this command:

Byte 1	Byte 2	Byte 3	Byte 4
F2	09	EA	80

The unit will return the following information:

Byte 1	Byte 2
6E	01 = 1501

For example, if Byte 2 of the response is **0x01**, then the unit is a 1501 model.

