

The AS4x1
and AS4x1R

Audio Switcher
Four Input Stereo
with RS232

Manual Version 3.0

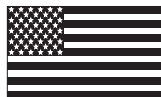


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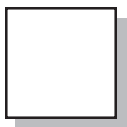
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Four Input Audio Switcher

Overview

The Burst Electronics Model AS4x1 Audio Switcher is a Four-channel stereo audio (unbalanced) switcher with built-in monitor amp and speaker. The input and output connectors are Phono (RCA) type. The output is selected by the appropriate front panel channel switch. An LED indicates the active channel. The input gain is unity. The volume control affects the monitor speaker and the front panel monitor jack only. The Model AS4x1R (R signifies Remote Control) includes a RS232 interface.

Power

Power is from the supplied 12 Vdc wall adapter. The AS4x1 may also be powered from an external 12 Vdc source. The dc power input has an autopolarity feature. You must feed it dc (not ac), of either polarity.

Operation

Select the input by pressing the appropriate input channel switch. The LED for that switch will illuminate. Upon power up, the AS4x1 defaults to channel one.

The channel LED also acts as a peak or clip indicator. When the input signal is at +12 dB (ref to 0 dBm), the peak/clip LED will flash.

Monitor Amp

The built in monitor amp will drive the internal 3" speaker or external headphones or speakers. There is a separate summing amp that drives the internal speaker. This amp sums the L and R channels.

The front panel monitor amp output is stereo via a 3-conductor 3.5 mm jack. The volume is set by the front panel control. This control has no effect on the rear outputs.

Specifications:

Audio

All spec ref 0 dB (0.77 Vac)

Bandwidth: 10 Hz to 40 kHz @ 1/4 dB

2 Hz to 70 kHz @ 3 dB

THD: 0.03% @ 20 Hz, 0.03% @ 1 kHz, 0.15% @ 20 kHz

S/N: 85 dB/100dBA

Crosstalk: >85 dB

Channel Separation: >50 dB

Headroom: +12 dB (3.1 Vac)

Peak Detector: Factory set to +12 dB

Input Impedance: 100k Ohms

Output Impedance: 100 Ohms

General

Audio Connector: Phono (RCA)

Internal Speaker: 3 inch

Headphone/External Speaker Connector:

3.5 mm Stereo, Tip: Left

Size: 4.2W x 1.5H x 5.5D inches

Power: 8 to 14 Vdc 30 mA quiescent, 200 mA max,
polarity insensitive

Wall Module Power Supply Included

Rack mount available, holds four units, side by side
Model RM4

RS232 (Model AS4x1R)

Data: 2400 Baud 8N1, listen only

Connector: 3.5 mm 3 conductor (stereo connector)

Remote Control

The RS232 Commands apply to the Model AS4x1R only.

The data transmission to the AS4x1R is 2400 baud 8N1.

To cause the AS4x1R to switch to an input, issue the command: Ax, where x is the channel number. Example: A2 will cause the AS4x1R to switch to channel two.

If a VS4x1R Video Switcher and a AS4x1R Audio Switcher are used together, then the command Bx will cause both units to switch.

Commands to the AS4x1R:

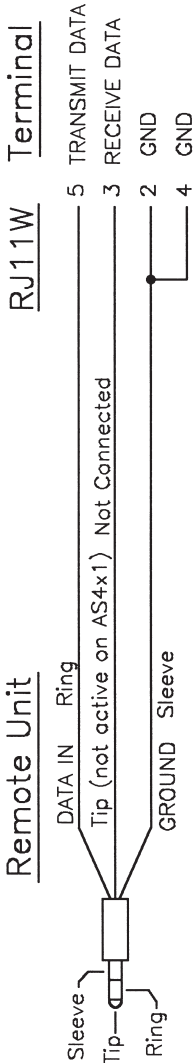
<u>Command</u>	<u>Function</u>
Ax	Switches to x Channel
Bx	Switches to x Channel and causes the VS4x1 to also switch

Audio/Video Switching

To switch both audio and video, use a AS4x1R Four-Channel Audio Switcher and a VS4x1R Four-Channel Video Switcher. These two units can be linked together via RS232. With the two units linked, audio follows video and audio breakaway is possible.

Interconnect the RS232 ports of the AS4x1R and VS4x1R using a “Stereo Patch Cable” with 3.5 mm stereo plugs on each end. An example is a Radio Shack 42-2387. See the VS4x1 manual for more details.

AS4x1 SERIAL INTERFACE CABLE
3.5 mm Type



1/8 inch (3.5 mm) Stereo Male Plug

Radio Shack 274-284 or 42-2387

Mouser 161-3504 Audio Jack



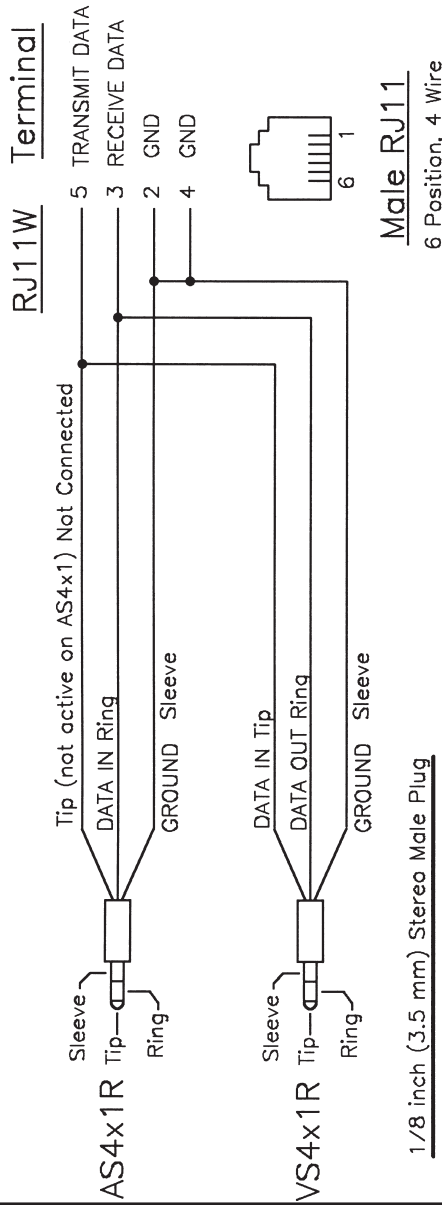
Male RJ11
6 Position, 4 Wire

Note: AS4x1 is a listen only device.
It does not echo back to the terminal.
This cable is for controlling a AS4x1,
if controlling both a VS4x1 and AS4x1,
see Drawing XS41CBLA.SCM

Title AS4x1 SERIAL CABLE			
Size	BURST ELECTRONICS	Rev	
A	Corrales, New Mexico 87048	B	
Date	11.06.00	Drawn by WJK	
Filename	AS41CBLB.SCM	Sheet	1 of 1

VS4x1R/AS4x1R SERIAL INTERFACE CABLE

3.5 mm Type



1/8 inch (3.5 mm) Stereo Male Plug

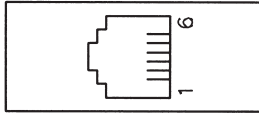
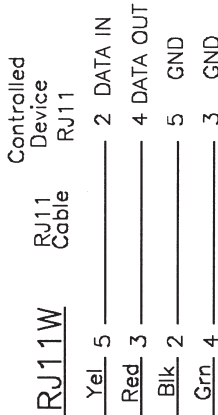
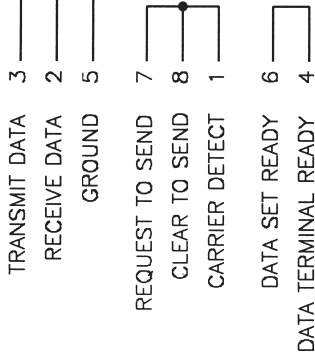
Radio Shack 274-284 or 42-2387

Mouser 161-3504 Audio Jack

Title		V/AS4x1R SERIAL CABLE	
Size	A	BURST ELECTRONICS	Rev
Date	1-11-99	Corrales, New Mexico 87048	A
Filename	XS41CBLA.SCM	Drawn by WJK	
Sheet	1	of	1

SERIAL INTERFACE ADAPTER
(DB9 TYPE)

DB9S



RJ11 VIEW



Socket (Female) Type

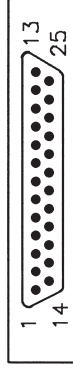
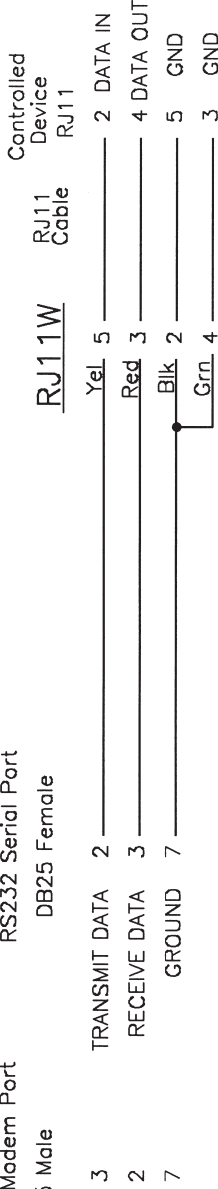
DB9 VIEW

Title SERIAL INTERFACE ADAPTOR			
Size A	BURST ELECTRONICS	Rev D	
Date 3-5-98	Corrales, New Mexico 87048	Drawn by WJK	
Filename db9	d.scm	Sheet 1	of 1

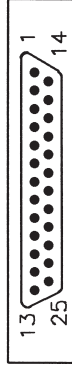
SERIAL INTERFACE (DB25 TYPE)

Direct Modem Connection
RS232C Modem Port
DB25 Male

Computer Connection
RS232C Serial Port
DB25 Female



Plug (Male) Type



Socket (Female) Type



RJ11
1 6 RJ11
1 8 RJ12

Title		SERIAL INTERFACE ADAPTOR	
Size	A	BURST ELECTRONICS	Rev
Date	3-5-98	Corrales, New Mexico 87048	D
Filename		db25_d.scm	
Sheet		1 of 1	

DB25 VIEW

