Yamaha LS9-16

Requirements

- Large Audio Mixer Interface Software Option
- SMC Serial to MIDI Converter
- MIDI Interface Cables (x2)
- Serial Interface Cables (DB9 to DB9)

Port Connections

	Switcher		SMC
Serial Connection	REMOTE Port (female)	⇨	SERIAL Port (female)
	SMC		**Audio Mixer**
MIDI Connection	MIDI Out	⇨	MIDI In
	MIDI In	⇨	MIDI Out

Cable Connectors

To Switcher
(male cable end)

To Device
(male cable end)
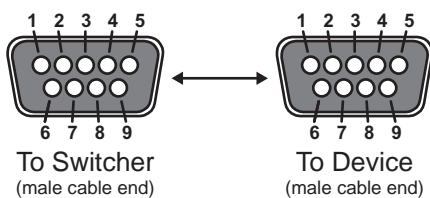
Figure 1 DB9 to DB9 Cable

Pinouts

Switcher	SMC
2 (Rx-)	2 (Tx-)
3 (Tx+)	3 (Rx+)
7 (Rx+)	7 (Tx+)
8 (Tx-)	8 (Rx-)

Switcher Setup

To Set Up Communications

1. Press **HOME** ⇨ **Setup** ⇨ **Installation** ⇨ **Com Setup** ⇨ **Type**.
    - Use the **Com Port** knob to select the **Remote X** port that you connected the SMC to.
    - Use the **Device** knob to select **Audio Mixer**.

2. Press **Select Device**.
    - Use the **Device** knob to select **Ya LS9-16**.

3. Press **Com Type**.
    - Use the **Type** knob to select **RS-422**.

4. Press **Com Settings**.
    - Use the **Baud** knob to select **38400**.
    - Use the **Parity** knob to select **NONE**.

5. Press **Extra Options**.

Extra Options	Value
Converter	SMC
Mixers (ganged together)	1 (default)
Version (of LS9-16)	1 (default)
Post-fade delay	5 (default)

6. Press **HOME** ⇨ **Confirm**.

To Assign Audio Channels to BNCs

1. Press **HOME** ⇨ **Setup** ⇨ **Installation** ⇨ **BNC** ⇨ **Audio**.

2. Use the **BNC** knob to select the Input BNC that you want to assign an audio channel to.

3. Use the **Audio 1** knob to select an audio channel, or group, that you want to assign to the selected Input BNC.

4. Use the **Audio 2** knob to select another audio channel, or group, that you want to assign to the selected Input BNC.

5. Press **HOME** ⇨ **Confirm**.

Refer to your switcher manual for information on creating audio groups, or setting default audio levels.

Device Setup

1. Press the **SETUP** function button in the **Display Access Group** until the **MISC SETUP** tab is displayed.

2. Use the **Cursor** buttons to select **MIDI SETUP** and press **ENTER** to display the **MIDI SETUP** menu.

3. Use the **Cursor** buttons to set the following (you will have to press **ENTER** after each selection):

Setting	Tx	Rx	ECHO
Port	MIDI	MIDI	--
CH	1	1	--
Program Change	ON	ON	OFF

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Setting	Tx	Rx	ECHO
Control Change	OFF	ON	--
Param Change	ON	ON	OFF
Other Commands	--	--	OFF

4. Use the **Cursor** buttons to set the **MODE** to **MULTI**, **OMNI**, and **NRPN**.

Note: *If the mixer is in SENDS ON FADER mode (all **MIX/MATRIX** lights are on and one is blinking), your mixer will not respond to switcher commands. Press one of the **MIX/MATRIX** buttons to exit this mode.*

Compatibility

Audio Mixer	Version
Yamaha LS9-16	--
Switchers	
Synergy 1 SD	--
Synergy Series SD	18.10 or higher
Synergy MD/X	9.1 or higher
Vision MD/X	8.3 or higher
Vision QMD/X	8.3 or higher
Vision MultiPanel Support	--
Automation	
OverDrive	8.0 or higher
Port Expanders	
BSS4	✔
Comtrol DeviceMaster	✔

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