



SLX-D

Command Strings

Third-party command strings for Shure SLX-D wireless system
Version: 3.0 (2025-A)

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SLX-D

Command Strings

The SLX-D device is connected via Ethernet to a control system, such as

- AMX, Crestron or Extron
- Symetrix, Biamp, other digital signal processors (DSP)
- Specialized custom programs

Connection: Ethernet (TCP/IP; select "Client" in the AMX/Crestron program)

Port: 2202

Conventions

There are 4 types of strings:

GET	Finds the status of a property. After the AMX/Crestron sends a GET command, the system responds with a REPORT string
SET	Changes the status of a property. After the AMX/Crestron sends a SET command, the system responds with a REPORT string to indicate the new value of the property.
REP	When the system receives a GET or SET command, it replies with a REPORT command to indicate the status of the property. Important: With the exception of the metered properties, the device sends a REPORT when a value changes. Thus, it is not necessary to constantly query most device properties.
SAMPLE	Used for metering audio levels.

All messages sent and received are ASCII. Note that the level indicators and gain indicators are also in ASCII

The character "x" in all of the following strings represents the channel and can be ASCII numbers 0 through 4 as in the following table.

0	All channels
1, 2*	Individual channels

*1, 2, 3, 4 for SLXD4Q+

Device Command Strings

ALL

Description	Discovery of device properties.
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Commands	<code>< GET x ALL ></code> <code>< REP ... ></code>
Variables	<p>When x is zero, the device responds with REP for all device-specific properties and ALL channel-related properties including all metered properties.</p> <p>When x is a channel number, the device responds with REP for all device-specific properties and ALL channel x-related properties including all metered properties.</p>
Notes	None.

FLASH

Description	Controls the flash to identify a device or channel.
Commands	<code>< SET FLASH ON ></code> <code>< REP FLASH ON ></code> <p>Device initiates an identify then stops flashing:</p> <code>< REP FLASH OFF ></code> <p>Note: When used with no channel index the command initiates a Device Identify. When used with a channel index the command initiates a Channel Identify.</p> <code>< SET x FLASH ON ></code> <code>< REP x FLASH ON ></code>
Variables	When used, x is the channel number.
Notes	None.

MODEL

Description	Discovery of the model name of the device.
Commands	<code>< GET MODEL ></code> <code>< REP MODEL {SLXD4yyyyyyyyyyyyyyyyyyyyyyyy} ></code>
Variables	Where the repeating y represents the spaces returned by the device to pad the model name to 32 characters.
Notes	The device always responds with a 32-character model name.

DEVICE_ID

Description	Controls the Device ID.
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Commands	< GET DEVICE_ID > < REP DEVICE_ID {SLXD4yyy} > < SET DEVICE_ID {Name1} > < REP DEVICE_ID {Name1yyy} >
Variables	Where the repeating y represents the spaces returned by the device to pad the Device ID to 8 characters.
Notes	The device always responds with 8-character ID. SET accepts 1-8 Characters from the set: A-Z,a-z,0-9,!"#\$%&'()*+,-./:;<=>?@[\\]^_`~ and space.

RF_BAND

Description	Discovery of the RF band.
Commands	< GET RF_BAND > < REP RF_BAND {G55yyyyy} >
Variables	Where the repeating y represents the spaces returned by the device to pad the response to 8 characters.
Notes	None.

LOCK_STATUS

Description	Discovery of the transmitter Lock.
Commands	< GET LOCK_STATUS > < REP LOCK_STATUS ALL >
Variables	None.
Notes	Report responses: OFF MENU ALL

FW_VER

Description	Discovery of the firmware version.
Commands	Self test passed:

	<pre>< GET FW_VER > < REP FW_VER {2.0.15.2yyyyyyyyyyyyyyyy} ></pre> <p>Self test failed:</p> <pre>< GET FW_VER > < REP FW_VER {2.0.15.2*yyyyyyyyyyyyyyyy} ></pre>
Variables	Where the repeating y represents the spaces returned by the device to pad the response to 24 characters.
Notes	Package version number reported as Maj.Min.Pack.Build.

Channel Command Strings

CHAN_NAME

Description	Control for the channel name.
Commands	<pre>< GET x CHAN_NAME > < REP x CHAN_NAME {yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy} ></pre> <pre>< SET x CHAN_NAME {Lead Vox} > < REP x CHAN_NAME {Lead Voxyyyyyyyyyyyyyyyyyyyyyyyy} ></pre>
Variables	<p>Where x is the channel number.</p> <p>Where the repeating y represents or pads the 31-character string from the set: A-Z,a-z, 0-9,!"#\$%&'()*+,-./:;<=>?@[\\]^_`~ and space, that is, {1234567890123456789012345678901}.</p>
Notes	<p>SET only supports 8 characters.</p> <p>The device always responds with a 31-character name.</p>

AUDIO_GAIN

Description	Control for the channel audio gain.
Commands	<pre>< GET x AUDIO_GAIN > < REP x AUDIO_GAIN 030 ></pre> <p>There is an offset of 18 so the actual value = 30 - 18 = 12 dB.</p> <p>To set to 22 dB:</p>

	<pre>< SET x AUDIO_GAIN 40 > < REP x AUDIO_GAIN 040 ></pre> <p>To decrement the value down 5 dB:</p> <pre>< SET x AUDIO_GAIN DEC 5 > < REP x AUDIO_GAIN 035 ></pre> <p>To increment the value up 10 dB:</p> <pre>< SET x AUDIO_GAIN INC 10 > < REP x AUDIO_GAIN 045 ></pre>
Variables	Where x is the channel number.
Notes	<p>Numeric 3 Characters 000 to 060 in increments of 1 The values REPorted and SET are offset by 18 Actual range: -18 to 42 dB in 1 dB steps</p>

AUDIO_OUT_LVL_SWITCH

Description	Discovery of the current Mic/Line switch status.
Commands	<pre>< GET x AUDIO_OUT_LVL_SWITCH > < REP x AUDIO_OUT_LVL_SWITCH MIC ></pre>
Variables	Where x is the channel number.
Notes	<p>"MIC" - Audio output is at microphone level (default) "LINE" - Audio output is at line level</p>

GROUP_CHANNEL

Description	Controls the group channel mappings.
Commands	<pre>< GET x GROUP_CHANNEL > < REP x GROUP_CHANNEL {1,1yy} ></pre> <pre>< SET x GROUP_CHANNEL {6,100} > < REP x FREQUENCY 0652875 > < REP x GROUP_CHANNEL {6,100} ></pre>
Variables	Where x is the channel number.

	Where the repeating y represents the spaces returned by the device to pad the response to 5 characters.
Notes	<p>Device always returns a 5-character string</p> <p>Refer to the Group/Channel mappings corresponding to the RF Band and Transmission Mode of the device</p> <p>You must parse the "," from within the reported value</p> <p>Characters before the "," are the Group ID Characters after the "," are the Channel ID</p> <p>The value: "--,--" is the wildcard indicating no GROUP_CHANNEL value is set</p> <p>You cannot SET to "--,--"</p> <p>Note: GROUP_CHANNEL and FREQUENCY are related as described in FREQUENCY.</p>

FREQUENCY

Description	Controls frequency settings.
Commands	<pre>< GET x FREQUENCY > < REP x FREQUENCY 0578350 > < SET x FREQUENCY 602125 > < REP x GROUP_CHANNEL {--,--yyyy} > (Note 1) < REP x FREQUENCY 0602125 ></pre>
Variables	<p>Where x is the channel number.</p> <p>Where the repeating y represents the spaces returned by the device to pad the response to 7 characters.</p>
Notes	<p>Frequency and Group Channel</p> <p>FREQUENCY - Device always returns a 7-character, numeric string</p> <p>GROUP_CHANNEL - Device always returns a 10-character string</p> <p>Range and Step per the RF Band</p> <ol style="list-style-type: none"> GROUP_CHANNEL and FREQUENCY are related: <ol style="list-style-type: none"> Setting FREQUENCY results in the GROUP_CHANNEL value reverting to "--,--" if not already indicating "--,--" in addition to the FREQUENCY value. Setting GROUP_CHAN results in the corresponding FREQUENCY value being reported in addition to the GROUP_CHAN value. <p>Commands:</p> <p>Starting from a default condition:</p> <pre>< GET x GROUP_CHANNEL > < REP x GROUP_CHANNEL {1,1yyyyyyy} > < GET x FREQUENCY > < REP x FREQUENCY 0606025 ></pre> <p>SET the FREQUENCY to some new value:</p>


```
< SET x FREQUENCY 620000 >
< REP x GROUP_CHANNEL {--,--yyyy} >
< REP x FREQUENCY 0620000 >
```

Similarly, when setting GROUP_CHANNEL, the corresponding FREQUENCY is re-reported:

```
< SET x GROUP_CHANNEL {6,6} >
< REP x FREQUENCY 0614650 >
< REP x GROUP_CHANNEL {6,6yyyyyy} >
```

Metering Command Strings

The majority of properties generate REP (Report) messages when their values change (for example, Frequency, Channel Name, and so on.)

For attributes such as audio meters, RF meters, channel quality meters, and the like, a REP on each change is inefficient and can flood many simple control systems.

The Shure approach is to use metering to periodically sample your channels and devices:

- You can still use GET to discover a value when necessary.
- Combine the metered attributes into a single SAMPLE message per channel.

for example,

```
< SAMPLE chNum ALL audPeak audRms rfRssi >
```

returns

```
< SAMPLE 1 ALL 102 102 086 >
```

where each field is documented and easy to parse.

- Generate periodic SAMPLE messages at the interval set via the METER_RATE.

Note: To turn off sampling, use

```
< SET x METER_RATE 00000 >
```

where **x** is the channel number.

The following sections detail METER_RATE and SAMPLE followed by the set of metered attributes.

METER_RATE

Description	Controls the meter rate.
Commands	<pre>< GET x METER_RATE > < REP x METER_RATE 00000 > < SET x METER_RATE 01000 > < REP x METER_RATE 01000 ></pre> <p>Note: This results in one SAMPLE every second.</p>

Variables	Where x is the channel number.
Notes	<p>Numeric, 5-character fixed output. 00000 - Metering OFF (default) 00100 to 65535 - The interval of each SAMPLE report in milliseconds.</p> <p>For example,</p> <p>00100 - Sample every 10 millisecond (10 samples per sec)</p> <p>01000 - Sample every second</p> <p>05000 - Sample every 5 seconds</p>

SAMPLE

Description	Specifies which of the Metering Commands you want to sample.																			
Commands	<p>Sample input:</p> <p>Note: The sample input that follows is actually 1 line of input spaced to show correlation.</p> <p>< SAMPLE chNum ALL audPeak audRms rfRssi ></p> <p>Sample response:</p> <p>< SAMPLE 1 ALL 102 102 086 ></p>																			
Variables	<p>Key mapping:</p> <table><tr><th>Key</th><th>Corresponding command string for value format</th><th>Num Char</th><th>Notes</th></tr><tr><td>audPeak</td><td>AUDIO_LEVEL_PEAK</td><td>3</td><td></td></tr><tr><td>audRms</td><td>AUDIO_LEVEL_RMS</td><td>3</td><td></td></tr><tr><td>rfRssi</td><td>RSSI</td><td>3</td><td></td></tr></table>				Key	Corresponding command string for value format	Num Char	Notes	audPeak	AUDIO_LEVEL_PEAK	3		audRms	AUDIO_LEVEL_RMS	3		rfRssi	RSSI	3	
Key	Corresponding command string for value format	Num Char	Notes																	
audPeak	AUDIO_LEVEL_PEAK	3																		
audRms	AUDIO_LEVEL_RMS	3																		
rfRssi	RSSI	3																		
Notes	None.																			

AUDIO_LEVEL_PEAK

Description	Discovery of peak audio level.
Commands	<p>< GET x AUDIO_LEVEL_PEAK ></p> <p>< REP x AUDIO_LEVEL_PEAK 102 ></p>
Variables	Where x is the channel number

Notes	<p>This is a metered property using SAMPLE; it does not generate a report on a value change.</p> <p>Numeric, 3-character fixed output</p> <p>Units: dBFS</p> <p>The actual value = the reported value - 120</p> <p>Value range as reported over command strings: 000 - 120</p> <p>Value range after conversion to the actual value: -120 - 0 dBFS</p> <p>The SLX-D values fall in the range of about -100 to 0 dBFS.</p>
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AUDIO_LEVEL_RMS

Description	Discovery of the RMS audio level.
Commands	<p>< GET x AUDIO_LEVEL_RMS ></p> <p>< REP x AUDIO_LEVEL_RMS 102 ></p>
Variables	Where x is the channel number.
Notes	<p>This is a metered property using SAMPLE; it does not generate a report on a value change.</p> <p>Format: Numeric, 3-character fixed output</p> <p>Units: dBFS</p> <p>The actual value = the reported value - 120</p> <p>Value range as reported over command strings: 000 - 120</p> <p>Value range after conversion to the actual value: -120 - 0 dBFS</p> <p>The SLX-D values fall in the range of about -100 to 0 dBFS.</p>

RSSI

Description	Discovery of the RSSI.
Commands	<p>< GET x RSSI ></p> <p>< REP x RSSI 1 083 ></p> <p>< REP x RSSI 2 064 ></p>
Variables	Where x is the channel number.
Notes	<p>This is a metered property using SAMPLE; it does not generate a report on a value change.</p> <p>Numeric, 3-character fixed output per antenna</p> <p>Units: dBm</p> <p>The actual value = the reported value - 120</p> <p>Value range as reported over command strings: 000 - 120</p> <p>Value range after conversion to the actual value: -120 - 0 dBm</p>

Side Channel Command Strings

TX_MODEL

Description	Discovery of the transmitter model.
Commands	<p>< GET x TX_MODEL ></p> <p>< REP x TX_MODEL UNKNOWN ></p> <p>Report of a transmitter being received:</p> <p>< REP x TX_MODEL SLXD2 ></p>
Variables	Where x is the channel number.
Notes	<p>Report responses:</p> <p>SLXD1</p> <p>SLXD2</p> <p>UNKNOWN</p>

TX_BATT_MINS

Description	Discovery of the transmitter battery runtime minutes.
Commands	<p>< GET x TX_BATT_MINS ></p> <p>< REP x TX_BATT_MINS 65535 ></p> <p>Report when data becomes known (example is 2 hours 5 minutes):</p> <p>< REP x TX_BATT_MINS 00125 ></p>
Variables	Where x is the channel number.
Notes	<p>Numeric, 5-character fixed output</p> <p>00000 to 65532 - Number of minutes of runtime</p> <p>65533 - Battery communication warning</p> <p>65534 - Battery time calculating</p> <p>65535 - Unknown, or not applicable</p>

TX_BATT_BARS

Description	Discovery of the transmitter Battery Bars.
Commands	<p>< GET x TX_BATT_BARS ></p> <p>< REP x TX_BATT_BARS 255 ></p>

	Report when data becomes known: < REP x TX_BATT_BARS 004 >
Variables	Where x is the channel number.
Notes	Numeric, 3-character fixed output 000 to 005 255 - Unknown