
Axient Digital -- Command Strings

(Preliminary document - May 2, 2018)

The Axient Digital 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 parameter. After the AMX/Crestron sends a GET command, the system responds with a REPORT string
SET	Changes the status of a parameter. After the AMX/Crestron sends a SET command, the system responds with a REPORT string to indicate the new value of the parameter.
REP	When the system receives a GET or SET command, it replies with a REPORT command to indicate the status of the parameter. REPORT is also sent by the device when a parameter is changed.
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

Most parameters send a REPORT command when they change. Thus, it is not necessary to constantly query parameters.

Indexing

Indexing is used to specifically identify upon what the command string is acting:

- The first index in the commands is the Channel Index, for channels 1-4.
- Any additional indexes follow the parameter name to further identify attributes within the channel. Those are documented when applicable to a property. (for example, multiple slots, antenna, equalizer parameters, and the like)

Axient Digital Naming

- AD4Q - Is a 4 channel device (Q - Quad)
- AD4D - is a 2 channel device (D - Dual)
- AD4 channels have 8 transmitter slots
- AD4 channels typically have 1 RF section and 2 Antenna inputs.

Device Command Strings

ALL

Parameter	ALL
Command Types Supported	GET REP
Indexing	0 - All device and all channel properties n - All device and all channel n properties
Values	n/a
Examples	<p>< GET 0 ALL ></p> <p>Responds with REP for all device specific properties and ALL channel related properties including all metered properties.</p> <p>< GET 3 ALL ></p> <p>Responds with REP for all device specific properties and ALL channel 3 related properties including all metered properties.</p>

DEVICE_ID

Parameter	DEVICE_ID
Command Types Supported	GET SET REP
Indexing	n/a
Values	<p>Format: Fixed String 31 character for REP</p> <p>1-8 Characters from the set: A-Z,a-z,0-9,!"#\$%&'()*+,-./:;<=>?@[^_`~ and space</p>

Examples	<pre>< GET DEVICE_ID > < REP DEVICE_ID {AD4Q-A } > < SET DEVICE_ID {Rack1} > < REP DEVICE_ID {Rack1 } ></pre>
System Data References / Notes	Device ID

ENCRYPTION_MODE

Parameter	ENCRYPTION_MODE
Command Types Supported	GET REP
Indexing	n/a
Values	ON OFF
Examples	<pre>< GET ENCRYPTION_MODE > < REP ENCRYPTION_MODE ON ></pre>
System Data References / Notes	Encryption Mode

FW_VER

Parameter	FW_VER
Command Types Supported	GET REP
Indexing	n/a
Values	Package version number reported as Maj.Min.Pack.Build<SelfTestFailed=*> Output is fixed, left justified to 24 characters

Examples	<p>Self test passed:</p> <pre>< GET FW_VER > < REP FW_VER {2.0.15.2 } ></pre> <p>Self test failed:</p> <pre>< GET FW_VER > < REP FW_VER {2.0.15.2* } ></pre>
System Data References / Notes	<p>Firmware Version</p> <p>Firmware Version Valid</p>

FLASH

Parameter	FLASH
Command Types Supported	<p>SET</p> <p>REP</p>
Indexing	Channel Number
Values	ON
Examples	<pre>< SET 1 FLASH ON > < REP 1 FLASH ON ></pre>
System Data References / Notes	Identify (Channel)

MODEL

Parameter	MODEL
Command Types Supported	<p>GET</p> <p>REP</p>
Indexing	n/a
Values	<p>Format: String; 32 Characters</p> <p>Model name of the device.</p>

Examples	< GET MODEL > < REP MODEL {AD4Q-A } >
System Data References / Notes	Model Name

QUADVERSITY_MODE

Parameter	QUADVERSITY_MODE
Command Types Supported	GET REP
Indexing	n/a
Values	ON OFF
Examples	< GET QUADVERSITY_MODE > < REP QUADVERSITY_MODE OFF >
System Data References / Notes	Quadversity Mode - While only applicable to AD4Q, an attempt to GET on an AD4D shall report OFF.

RF_BAND

Parameter	RF_BAND
Command Types Supported	GET SET REP
Indexing	none
Values	Format: String, 8 Characters
Examples	< GET RF_BAND > < REP RF_BAND {G55 } >
System Data References / Notes	RF Band

TRANSMISSION_MODE

Parameter	TRANSMISSION_MODE
Command Types Supported	GET REP
Indexing	n/a
Values	STANDARD HIGH_DENSITY
Examples	< GET TRANSMISSION_MODE > < REP TRANSMISSION_MODE STANDARD >
System Data References / Notes	Modem Mode

Channel Command Strings

AUDIO_GAIN

Name	AUDIO_GAIN
Description	Control for the channel's audio gain.
Command Types	GET SET REP
Indexing	Channel Number
Values	000 - 060
Value formatting and notes	<ul style="list-style-type: none"> • Numeric • 3 Characters • 000 - 060 in increments of 1 • The values REPorted and SET are offset by 18 • Actual range: -18 to 42 dB in 1 dB steps

Examples	<pre>< GET 1 AUDIO_GAIN > < REP 1 AUDIO_GAIN 030 > The actual value = 30 - 18 = 12 dB To set to 22 dB: < SET 1 AUDIO_GAIN 40 > < REP 1 AUDIO_GAIN 040 > To decrement the value down 5 dB: < SET 1 AUDIO_GAIN DEC 5 > < REP 1 AUDIO_GAIN 035 > To increment the value up 10 dB: < SET 1 AUDIO_GAIN INC 10 > < REP 1 AUDIO_GAIN 045 ></pre>
Command Notes	n/a

AUDIO_MUTE

Name	AUDIO_MUTE
Description	Control for the channel's audio mute.
Command Types	<pre>GET SET REP</pre>
Indexing	Channel Number
Values	<pre>ON OFF TOGGLE</pre>
Value formatting and notes	TOGGLE switches between ON and OFF
Examples	<pre>< GET 1 AUDIO_MUTE > < REP 1 AUDIO_MUTE OFF > < SET 1 AUDIO_MUTE ON > < REP 1 AUDIO_MUTE ON > < SET 1 AUDIO_MUTE TOGGLE > < REP 1 AUDIO_MUTE OFF ></pre>

Command Notes	n/a
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CHAN_NAME

Name	CHAN_NAME
Description	Control for the channel's name.
Command Types	GET SET REP
Indexing	Channel Number
Values	YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
Value formatting and notes	31-character string from the set: A-Z,a-z,0-9,!"#\$%&'()*+,-./:;<=>?@[^_`~ and space, that is, {1234567890123456789012345678901}
Examples	<pre>< GET 1 CHAN_NAME > < REP 1 CHAN_NAME {Channel11 } > < SET 1 CHAN_NAME {Lead Vox} > < REP 1 CHAN_NAME {Lead Vox } > < GET 1 CHAN_NAME > < REP 1 CHAN_NAME {Channel11 } > < SET 1 CHAN_NAME {Lead Vox} > < REP 1 CHAN_NAME {Lead Vox } ></pre>
Command Notes	n/a

ENCRYPTION_STATUS

Parameter	ENCRYPTION_STATUS
Command Types Supported	GET REP
Indexing	Channel Number

Values	OK ERROR
Examples	< GET 1 ENCRYPTION_STATUS > < REP 1 ENCRYPTION_STATUS OK > When a mismatched transmitter is detected: < REP 1 ENCRYPTION_STATUS ERROR >
System Data References / Notes	ENCRYPTION_STATUS

FD_MODE

Name	FD_MODE
Description	Discovery for the type of Frequency Diversity.
Command Types	GET REP
Indexing	Channel Number
Values	OFF FD-C FD-S
Value formatting and notes	FD-C : Combining mode FD-S : Selection mode
Examples	< GET 1 FD_MODE > < REP 1 FD_MODE OFF > < GET 3 FD_MODE > < REP 3 FD_MODE FD-C >
Command Notes	n/a

FLASH

Parameter	FLASH
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Command Types Supported	SET
Indexing	n/a
Values	ON OFF (OFF is only used for REP status)
Examples	< SET FLASH ON > < REP FLASH ON > Device initiates Identify then stops flashing < REP FLASH OFF >
System Data References / Notes	Identify 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.

FREQUENCY

Parameter	FREQUENCY FREQUENCY2 (for FD-C channels only; see Note 2)
Command Types Supported	GET SET REP
Indexing	Channel Number
Values	<ul style="list-style-type: none"> Numeric 7-Character fixed output Range and Step per the RF Band
Examples	< GET 1 FREQUENCY > < REP 1 FREQUENCY 0578350 > < SET 1 FREQUENCY 602125 > < REP 1 GROUP_CHANNEL {--, -- } > (Note 1) < REP 1 FREQUENCY 0606125 >

System Data References / Notes	<p>Frequency Group Channel</p> <ol style="list-style-type: none"> 1. GROUP_CHANNEL and FREQUENCY are related: <ol style="list-style-type: none"> 1. Setting FREQUENCY results in the GROUP_CHANNEL value reverting to "--,--" if not already indicating "--,--" in addition to the FREQUENCY value. 2. Setting GROUP_CHAN results in the corresponding FREQUENCY value being reported in addition to the GROUP_CHAN value. 2. Examples: Starting from a default condition: <pre>< GET 1 GROUP_CHANNEL > < REP 1 GROUP_CHANNEL {1,1 } > < GET 1 FREQUENCY > < REP 1 FREQUENCY 0606025 ></pre> 3. SET the FREQUENCY to some new value: <pre>< SET 1 FREQUENCY 620000 > < REP 1 GROUP_CHANNEL {--,-- } > < REP 1 FREQUENCY 0620000 ></pre> 4. Similarly, when setting GROUP_CHANNEL, the corresponding FREQUENCY is reported: <pre>< SET 1 GROUP_CHANNEL {6,6} > < REP 1 FREQUENCY 0614650 > < REP 1 GROUP_CHANNEL {6,6 } ></pre> 5. For channels operating in FD-C mode, there is a second FREQUENCY2 and GROUP_CHANNEL2 that behave in the same manner as FREQUENCY. <pre>< GET 1 FD_MODE > < REP 1 FD_MODE FD-C > < GET 1 FREQUENCY > < REP 1 FREQUENCY 0578350 > < GET 1 FREQUENCY2 > < REP 1 FREQUENCY2 0578850 ></pre>
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GROUP_CHANNEL

Parameter	GROUP_CHANNEL GROUP_CHANNEL2 (FD-C mode only)
Command Types Supported	GET SET REP

Indexing	Channel Number
Values	<ul style="list-style-type: none"> • Format: String 10 Character fixed output • Refer to the Group/Channel mappings corresponding to the RF Band and Transmission Mode of the device • You must parse the "," from within the reported value • Characters before the "," are the Group ID Characters after the "," are the Channel ID • The value: "--,--" is the wildcard indicating no GROUP_CHANNEL value is set • You cannot SET to "--,--"
Examples	<pre>< GET 1 GROUP_CHANNEL > < REP 1 GROUP_CHANNEL {1,1 } > < SET 1 GROUP_CHANNEL {6,100} > < REP 1 FREQUENCY 0652875 > < REP 1 GROUP_CHANNEL {6,100 } ></pre>
System Data References / Notes	<p>Group_Channel and Frequency</p> <ol style="list-style-type: none"> 1. GROUP_CHANNEL and FREQUENCY are related as described in FREQUENCY. 2. For channels operating in FD-C mode, GROUP_CHANNEL2 corresponds to the second Group Channel value.

INTERFERENCE_STATUS

Parameter	<p>INTERFERENCE_STATUS INTERFERENCE_STATUS2 (For FD-C channels only)</p>
Command Types Supported	<p>GET REP</p>
Indexing	Channel Number
Values	<p>NONE DETECTED</p>
Examples	<pre>< GET 1 INTERFERENCE_STATUS > < REP 1 INTERFERENCE_STATUS NONE > When interference is detected: < REP 1 INTERFERENCE_STATUS DETECTED ></pre>

System Data References / Notes	INTERFERENCE- Status For FD-C mode INTERFERENCE_STATUS2 - Status on F2
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UNREGISTERED_TX_STATUS

Parameter	UNREGISTERED_TX_STATUS
Command Types Supported	GET REP
Indexing	Channel Number
Values	OK ERROR
Examples	<pre>< GET 1 UNREGISTERED_TX_STATUS > < REP 1 UNREGISTERED_TX_STATUS OK ></pre> <p>A REP when the condition is occurring or not:</p> <pre>< REP 1 UNREGISTERED_TX_STATUS ERROR ></pre>
System Data References / Notes	Unregistered Transmitter Detected Status

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:

- Do not generate REPs for metered attributes. You can still GET them with a corresponding REP when necessary.
- Combine those metered attributes into a single SAMPLE message per channel.
 - for example, `< SAMPLE 1 ALL 005 000 045 062 BB 31 099 31 085 >`
 - Where each field is documented and easy to parse.
- Generate periodic SAMPLE messages at the interval set via the METER_RATE
 - Including a method to turn OFF the samples

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

METER_RATE

Parameter	METER_RATE
Command Types Supported	GET SET REP
Indexing	Channel Number
Values	<p>Format: Numeric, 5 character fixed output.</p> <p>00000 : Metering OFF (default)</p> <p>00100 - 65535: The interval of each SAMPLE report in milliseconds.</p> <p>For example,</p> <p>00100 : Sample every 100 millisecond (10 samples per sec)</p> <p>01000 : Sample every second</p> <p>05000 : Sample every 5 seconds</p>
Examples	<pre>< GET 1 METER_RATE > < REP 1 METER_RATE 00000 > < SET 1 METER_RATE 01000 > < REP 1 METER_RATE 01000 ></pre> <p>Note: This results in one SAMPLE every second.</p>
System Data References / Notes	n/a

SAMPLE

Parameter	Multiple channel attributes are valid within SAMPLE
Command Types Supported	SAMPLE
Indexing	<p>Channel Number</p> <p>Quadversity and FD-C operation depicted in the examples.</p>

Values	Key mapping:			
	Key	Corresponding command string for value format	Num Char	Notes
	qual	CHANNEL_QUALITY	3	
	aud- Bitmap	AUDIO_LED_BITMAP	3	Use for simple UIs as this is a direct mirror of the front panel LEDs.
	audPeak	AUDIO_LEVEL_PEAK	3	
	audRms	AUDIO_LEVEL_RMS	3	
	rfAntS- tats	ANTENNA_STATUS	2	Quadversity: XX for Quad = OFF XXXX for Quad = ON FD-C: Append F2's set of RF
	rfBitmap	RSSI_LED_BITMAP	2	Use for simple UIs as this is a direct mirror of the front panel LEDs. See the example for how this scales to antenna A-D.
rfRssi	RSSI	3	See the example for how this scales to antenna A-D.	

Examples	<p>Standard Channel: Quadversity = OFF, FD = OFF or FD-S: <code>< SAMPLE chNum ALL qual audBitmap audPeak audRms rfAntStats rfBitmapA rfRssiA rfBitmapB rfRssiB ></code> <code>< SAMPLE 1 ALL 005 031 102 102 BB 31 086 31 065 ></code></p> <p>Quadversity Channel: Quadversity = ON, FD = OFF <code>< SAMPLE chNum ALL qual audBitmap audPeak audRms rfAntStats rfBitmapA rfRssiA rfBitmapB rfRssiB rfBitmapC rfRssiC rf- BitmapD rfRssiD ></code> <code>< SAMPLE 1 ALL 005 031 102 102 BBBB 31 083 31 068 31 069 31 072 ></code></p> <p>FD-C Channel: Quadversity = OFF, FD = FD-C <code>< SAMPLE chNum ALL qual audBitmap audPeak audRms rfAntStatsF1 rfBitmapF1A rfRssiF1A rfBitmapF1B rfRssiF1B antStatsF2 rfBitmapF2A rfRssiF2A rfBitmapF2B rfRssiF2B ></code> <code>< SAMPLE 1 ALL 005 031 102 102 BB 31 082 31 060 BB 31 082 31 060 ></code></p> <p>Quadversity and FD-C Channel: Quadversity = ON, FD = FD-C Note: The sample input that follows is 1 line. <code>< SAMPLE chNum ALL qual audBitmap audPeak audRms rfAntStatsF1 rfBitmapF1A rfRssiF1A rfBitmapF1B rfRssiF1B rfBitmapF1C rfRssiF1C rfBitmapF1D rfRssiF1D rfAntStatsF2 rfBitmapF2A rfRssiF2A rfBitmapF2B rfRssiF2B rfBitmapF2C rfRssiF2C rfBitmapF2D rfRssiF2D ></code> <code>< SAMPLE 1 ALL 005 031 102 102 BBBB 31 084 31 065 31 070 31 070 BBBB 31 084 31 065 31 070 31 070 ></code></p>
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ANTENNA_STATUS

Parameter	ANTENNA_STATUS
Command Types Supported	GET REP ¹ ¹ Metered property: Does not generate a REP on a value change; this is included in SAMPLE.
Indexing	Channel Number

Values	<p>Each character represents an antenna ABCD, where the value for each can be:</p> <p>X - Off</p> <p>R - Red</p> <p>B - Blue</p> <p>Example of a Quad=OFF: BB</p> <p>Example of a Quad=ON: BBBB</p>
Examples	<p>Normal channel, both LEDs lit:</p> <pre>< GET 1 ANTENNA_STATUS > < REP 1 ANTENNA_STATUS BB ></pre> <p>Quadversity example where antenna A-Blue, B-Red, C-Off, D-Blue:</p> <pre>< GET 1 ANTENNA_STATUS > < REP 1 ANTENNA_STATUS BRXB ></pre>
System Data References / Notes	RF: Antenna Status

AUDIO_LED_BITMAP

Parameter	AUDIO_LED_BITMAP
Command Types Supported	<p>GET</p> <p>REP¹</p> <p>¹Metered property: Does not generate a REP on value change; this is included in SAMPLE.</p>
Indexing	Channel Number

Values	<p>Format: Numeric, 3 character fixed output Each bit corresponds to an LED from bottom to top.</p> <p>LEDs 1-4: Green LEDs 5-7: Amber LED 8 : Red</p> <p>Example values: 0 = b00000000 - all off 1 = b00000001 - first LED on ... 131 = b10000011 - after OL that is held, and the 2 bottom green LEDs are on ... 255 = b111111111 - all LEDs on</p>
Examples	<p>First 5 LEDs are ON</p> <pre>< GET 1 AUDIO_LED_BITMAP > < REP 1 AUDIO_LED_BITMAP 031 ></pre>
System Data References / Notes	Audio: LED Status Bitmap

AUDIO_LEVEL_PEAK

Parameter	AUDIO_LEVEL_PEAK
Command Types Supported	<p>GET REP¹</p> <p>¹Metered property: Does not generate a REP on value change; this is included in SAMPLE.</p>
Indexing	Channel Number

Values	<p>Format: Numeric, 3 character fixed output</p> <p>Units: dBFS</p> <p>$actualValue = reportedValue - 120$</p> <p>For example, if a reportedValue = 102, then actualValue = 102 - 120 = -18 dBFS. This creates a range of -120 to 0 dBFS. The AD4 values fall in the range ~ -100 to 0 dBFS.</p>
Examples	<pre>< GET 1 AUDIO_LEVEL_PEAK > < REP 1 AUDIO_LEVEL_PEAK 102 ></pre>
System Data References / Notes	Audio Meter (Peak)

AUDIO_LEVEL_RMS

Parameter	AUDIO_LEVEL_RMS
Command Types Supported	<p>GET</p> <p>REP¹</p> <p>¹Metered property: Does not generate a REP on value change; this is included in SAMPLE.</p>
Indexing	Channel Number
Values	<p>Format: Numeric, 3 character fixed output</p> <p>Units: dBFS</p> <p>$actualValue = reportedValue - 120$</p> <p>For example, if a reportedValue = 102, then actualValue = 102 - 120 = -18 dBFS. This creates a range of -120 to 0 dBFS. The AD4 values fall in the range ~ -100 to 0 dBFS.</p>
Examples	<pre>< GET 1 AUDIO_LEVEL_RMS > < REP 1 AUDIO_LEVEL_RMS 102 ></pre>
System Data References / Notes	Audio Meter (RMS)

CHAN_QUALITY

Parameter	CHAN_QUALITY
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Command Types Supported	GET REP ¹ ¹ Metered property: Does not generate a REP on value change; this is included in SAMPLE.
Indexing	Channel Number
Values	Format: Numeric, 3 character fixed output 000 - 005 255 = Unknown
Examples	< GET 1 CHAN_QUALITY > < REP 1 CHAN_QUALITY 005 >
System Data References / Notes	Audio: Channel Quality

RSSI

Parameter	RSSI
Command Types Supported	GET REP ¹ ¹ Metered property: Does not generate a REP on value change; this is included in SAMPLE.
Indexing	Channel Number, Antenna Index 1 : A 2 : B 3 : C 4 : D
Values	Format: Numeric, 3 character fixed output per antenna Units: dBm actualValue = reportedValue - 120

Examples	<p>For a normal channel (Quadversity = OFF)</p> <pre>< GET 1 RSSI 0 > < REP 1 RSSI 1 083 > < REP 1 RSSI 2 064 ></pre> <p>For a Quadversity channel (Quadversity = ON)</p> <pre>< GET 1 RSSI 0 > < REP 1 RSSI 1 083 > < REP 1 RSSI 2 064 > < REP 1 RSSI 3 082 > < REP 1 RSSI 4 071 ></pre>
System Data References / Notes	RF: RSSI

RSSI_LED_BITMAP

Parameter	RSSI_LED_BITMAP
Command Types Supported	<p>GET REP¹</p> <p>¹Metered property: Does not generate a REP on value change; this is included in SAMPLE.</p>
Indexing	<p>Channel Number, Antenna Index</p> <pre>1 : A 2 : B 3 : C 4 : D</pre>

Values	<p>Format: Numeric, 2 character fixed output per antenna: Represents a bitmap of which of the RSSI LEDs are ON from bottom to top.</p> <p>LEDs 1-5 : Amber</p> <p>LED 6 : Red (for Overload and RF Pad engaged indications)</p> <p>Example Values</p> <p>00 = b000000 = All LEDs off</p> <p>01 = b000001 = LED1 ON (bottom)</p> <p>...</p> <p>31 = b011111 = LEDs 1-5 ON</p> <p>32 = b100000 = LED6 ON (top, OL, all others OFF)</p> <p>...</p> <p>63 = b111111 = All LEDs on</p> <p>01 = b000001 = LED1 ON (bottom)</p>
Examples	<p>Antenna A, 5 LEDs on</p> <pre>< GET 1 RSSI_LED_BITMAP 1 > < REP 1 RSSI_LED_BITMAP 1 31 ></pre> <p>Example of all for a Quad=OFF</p> <pre>< GET 1 RSSI_LED_BITMAP 0 > < REP 1 RSSI_LED_BITMAP 1 63 > < REP 1 RSSI_LED_BITMAP 2 63 ></pre> <p>Example of all for a Quad=ON</p> <pre>< GET 1 RSSI_LED_BITMAP 0 > < REP 1 RSSI_LED_BITMAP 1 63 > < REP 1 RSSI_LED_BITMAP 2 63 > < REP 1 RSSI_LED_BITMAP 3 63 > < REP 1 RSSI_LED_BITMAP 4 63 ></pre>
System Data References / Notes	RF: RSSI LED Status Bitmap (per Antenna)

Side Channel Command Strings

TX_BATT_BARS

Parameter	TX_BATT_BARS
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Command Types Supported	GET REP
Indexing	Channel Number
Values	Numeric, 3 character fixed output 000 - 005 255 : Unknown
Examples	< GET 1 TX_BATT_BARS > < REP 1 TX_BATT_BARS 255 > Report when data becomes known: < REP 1 TX_BATT_BARS 004 >
System Data References / Notes	Tx Side Channel: Battery Bars

TX_BATT_CHARGE_PERCENT

Parameter	TX_BATT_CHARGE_PERCENT
Command Types Supported	GET REP
Indexing	Channel Number
Values	Numeric, 3 character fixed output 000 - 100 : Percent 255 : Unknown
Examples	< GET 1 TX_BATT_CHARGE_PERCENT > < REP 1 TX_BATT_CHARGE_PERCENT 255 > Report when data becomes known: < REP 1 TX_BATT_CHARGE_PERCENT 088 >
System Data References / Notes	Tx Side Channel: Battery Charge %

TX_BATT_CYCLE_COUNT

Parameter	TX_BATT_CYCLE_COUNT
Command Types Supported	GET REP
Indexing	Channel Number
Values	Numeric, 5 character fixed output 00000 - 65534 : Number of cycles 65535 : Unknown
Examples	< GET 1 TX_BATT_CYCLE_COUNT > < REP 1 TX_BATT_CYCLE_COUNT 65535 > Report when data becomes known: < REP 1 TX_BATT_CYCLE_COUNT 00019 >
System Data References / Notes	Tx Side Channel: Battery Cycle Count

TX_BATT_HEALTH_PERCENT

Parameter	TX_BATT_HEALTH_PERCENT
Command Types Supported	GET REP
Indexing	Channel Number
Values	Numeric, 3 character fixed output 000 - 100 : Percent 255 : Unknown
Examples	< GET 1 TX_BATT_HEALTH_PERCENT > < REP 1 TX_BATT_HEALTH_PERCENT 255 > Report when data becomes known: < REP 1 TX_BATT_HEALTH_PERCENT 088 >
System Data References / Notes	Tx Side Channel: Battery Health %

TX_BATT_MINS

Parameter	TX_BATT_MINS
Command Types Supported	GET REP
Indexing	Channel Number
Values	Numeric, 5 character fixed output 00000 - 65532 : Number of minutes of run time 65533 : Battery communication warning 65534 : Battery time calculating 65535 : Unknown, or not applicable
Examples	< GET 1 TX_BATT_MINS > < REP 1 TX_BATT_MINS 65535 > Report when data becomes known (example is 2 hours 5 minutes): < REP 1 TX_BATT_MINS 00125 >
System Data References / Notes	Tx Side Channel: Battery Time To Empty

TX_BATT_TEMP_C

Parameter	TX_BATT_TEMP_C
Command Types Supported	GET REP
Indexing	Channel Number
Values	Numeric, 3 character fixed output ActualValue = ReportedValue - 40 000 - 254 : Temperature 255 : Unknown, or not applicable

Examples	<pre>< GET 1 TX_BATT_TEMP_C > < REP 1 TX_BATT_TEMP_C 255 ></pre> <p>Report as data becomes known or changes:</p> <pre>< REP 1 TX_BATT_TEMP_C 062 ></pre>
System Data References / Notes	Tx Side Channel: Battery Temperature (C)

TX_BATT_TEMP_F

Parameter	TX_BATT_TEMP_F
Command Types Supported	GET REP
Indexing	Channel Number
Values	<p>Numeric, 3 character fixed output ActualValue = ReportedValue - 40</p> <p>000 - 254 : Temperature in Fahrenheit</p> <p>255 : Unknown, or not applicable</p>
Examples	<pre>< GET 1 TX_BATT_TEMP_F > < REP 1 TX_BATT_TEMP_F 255 ></pre> <p>Report as data becomes known or changes:</p> <pre>< REP 1 TX_BATT_TEMP_F 062 ></pre>
System Data References / Notes	Tx Side Channel: Battery Temperature (F)

TX_BATT_TYPE

Parameter	TX_BATT_TYPE
Command Types Supported	GET REP
Indexing	Channel Number

Values	LION ALKA NIMH LITH UNKN - Either no transmitter or not supported by transmitter
Examples	< GET 1 TX_BATT_TYPE > < REP 1 TX_BATT_TYPE UNKN > Report when data becomes known: < REP 1 TX_BATT_TYPE LION >
System Data References / Notes	Tx Side Channel: Battery Current Type

TX_DEVICE_ID

Parameter	TX_DEVICE_ID
Command Types Supported	GET REP
Indexing	Channel Number
Values	Format: String, 31 characters - Device ID of the transmitter being received Unknown - blank, all spaces
Examples	< GET 1 TX_DEVICE_ID > < REP 1 TX_DEVICE_ID { } > Report of a Tx being received: < REP 1 TX_DEVICE_ID {LeadVox } >
System Data References / Notes	Tx Side Channel: Device ID

TX_INPUT_PAD

Parameter	TX_INPUT_PAD
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Command Types Supported	GET REP
Indexing	Channel Number
Values	Format: Numeric, 3 character fixed output (Input Pad is applicable to AD1, ADX1. All others indicate unknown.) actualValue = reportedValue - 12 000 : Input Pad is ON (-12 dB) 012 : Input Pad is OFF (0 dB) 255 : Unknown, or Input Pad is not applicable to the Tx variant
Examples	< GET 1 TX_INPUT_PAD > < REP 1 TX_INPUT_PAD 255 > Report when data becomes known: < REP 1 TX_INPUT_PAD 000 >
System Data References / Notes	Tx Side Channel: Input Pad

TX_LOCK

Parameter	TX_LOCK
Command Types Supported	GET REP
Indexing	Channel Number
Values	NONE POWER MENU ALL UNKNOWN
Examples	< GET 1 TX_LOCK > < REP 1 TX_LOCK UNKNOWN > Report when data becomes known: < REP 1 TX_LOCK MENU >

System Data References / Notes	Tx Side Channel: Interface Lock Status
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TX_MODEL

Parameter	TX_MODEL
Command Types Supported	GET REP
Indexing	Channel Number
Values	AD1 AD2 ADX1 ADX1M ADX2 ADX2FD UNKNOWN
Examples	< GET 1 TX_MODEL > < REP 1 TX_MODEL UNKNOWN > Report of a Tx being received: < REP 1 TX_MODEL AD2 >
System Data References / Notes	Tx Side Channel: Model

TX_MUTE_MODE_STATUS

Parameter	TX_MUTE_MODE_STATUS
Command Types Supported	GET REP
Indexing	Channel Number

Values	ON MUTE UNKNOWN - Either no transmitter or not supported by transmitter
Examples	< GET 1 TX_MUTE_MODE_STATUS > < REP 1 TX_MUTE_MODE_STATUS UNKNOWN > Report when data becomes known: < REP 1 TX_MUTE_MODE_STATUS MUTE >
System Data References / Notes	Tx Side Channel: Mute Mode Status

TX_OFFSET

Parameter	TX_OFFSET
Command Types Supported	GET REP
Indexing	Channel Number
Values	Format: Numeric, 3 character fixed ActualValue = ReportedValue - 12 Actual Range: -12 to +21 dB in 1 dB steps Range: 000 to 032 255: Unknown
Examples	< GET 1 TX_OFFSET > < REP 1 TX_OFFSET 255 > Report when data becomes known: < REP 1 TX_OFFSET 012 >
System Data References / Notes	Tx Side Channel: Mic Gain Offset

TX_POLARITY

Parameter	TX_POLARITY
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Command Types Supported	GET REP
Indexing	Channel Number
Values	POSITIVE NEGATIVE UNKNOWN - Either no transmitter or not supported by transmitter
Examples	< GET 1 TX_POLARITY > < REP 1 TX_POLARITY UNKNOWN > Report when data becomes known: < REP 1 TX_POLARITY POSITIVE >
System Data References / Notes	Tx Side Channel: Polarity

TX_POWER_LEVEL

Parameter	TX_POWER_LEVEL
Command Types Supported	GET REP
Indexing	Channel Number
Values	Numeric, 3 character fixed length Transmit power level in mW (for example, 002, 010, or 020) 255 = Unknown
Examples	< GET 1 TX_POWER_LEVEL > < REP 1 TX_POWER_LEVEL 255 > Report when normal power level is decoded: < REP 1 TX_POWER_LEVEL 010 >
System Data References / Notes	Tx Side Channel: Tx RF Power Level (mW)

TX_TALK_SWITCH

Parameter	TX_TALK_SWITCH
Command Types Supported	GET REP
Indexing	Channel Number
Values	<p>Format: String</p> <p>ON - Talk Switch button press has been detected</p> <p>OFF - Talk Switch button has been released</p> <p>UNKNOWN - No transmitter detected and/or no Talk Switch button press has been detected up to this point in the transmitter's current connection.</p> <p>Note: OFF and UNKNOWN are treated the same by the AD4 algorithms with respect to Talk Switch routing.</p>
Examples	<p>Before a Talk Switch has been pressed, or no Tx has been decoded:</p> <pre>< GET 1 TX_TALK_SWITCH > < REP 1 TX_TALK_SWITCH UNKNOWN ></pre> <p>User presses Talk Switch, there is a report:</p> <pre>< REP 1 TX_TALK_SWITCH ON ></pre> <p>User releases the Talk Switch, there is a report:</p> <pre>< REP 1 TX_TALK_SWITCH OFF ></pre> <p>Now that the AD4 has knowledge that a Talk Switch is being used on this session:</p> <pre>< GET 1 TX_TALK_SWITCH > < REP 1 TX_TALK_SWITCH OFF ></pre> <p>When the Transmitter goes out of range, that session is lost and the state of the Talk Switch becomes unknown. There is a report (along with the reports for battery level unknown, model unknown, and so on):</p> <pre>< REP 1 TX_TALK_SWITCH UNKNOWN ></pre>
System Data References / Notes	Tx Side Channel: Talk Switch Status

Transmitter Slots Command Strings

Transmitter description

- Each channel of AD4 has 8 slots where a transmitter can be registered
 - Specify Channel index: 0 to interact with ALL 8 slots on a channel

- Specify Channel index: 1 through 8 to interact with that specific slot on a channel
- The SLOT_STATUS lets you know the status and what to expect from further operations
 - EMPTY - no transmitter exists in the SLOT.
 - GET: You can GET the other properties but those report as "Unknown" values
 - SET: Is not supported and results in **REP ERR**
 - STANDARD - an AD (standard) transmitter is registered in the slot
 - LINKED.INACTIVE - an ADX (enhanced) transmitter is registered in the slot, but is not currently online
 - STANDARD & LINKED.INACTIVE:
 - GET: You can GET more useful data for the SLOT_DEVICE_ID and SLOT_TX_MODEL but the other properties report as "Unknown" values
 - SET: Is not supported and results in **REP ERR**
 - LINKED.ACTIVE - an ADX (enhanced) transmitter is registered in the slot and is online.
 - GET: You can GET more useful data for all SLOT properties
 - SET: You can SET properties where it is applicable to do so. See the specific command details

Note: As transmitters get linked, unlinked, and moved around there will be corresponding REP events for all of the slot attributes that change. This is a great deal of data, but a control system can readily parse and use the data that it requires.

SLOT_BATT_BARS

Parameter	SLOT_BATT_BARS
Command Types Supported	GET REP
Indexing	Channel Number Slot Number
Values	Format: Numeric, 3 character fixed output 000 - 005 : Number of bars 255 : Unknown
Examples	<p>Transmitter is LINKED.ACTIVE:</p> <pre>< GET 1 SLOT_BATT_BARS 1 > < REP 1 SLOT_BATT_BARS 1 004 ></pre> <p>Reports occur as the battery depletes:</p> <pre>< REP 1 SLOT_BATT_BARS 1 003 > ... < REP 1 SLOT_BATT_BARS 1 002 ></pre> <p>Transmitter is out of range:</p> <pre>< GET 1 SLOT_BATT_BARS 1 > < REP 1 SLOT_BATT_BARS 1 255 ></pre>

System Data References / Notes	Linked.Active Tx: Battery Bars
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SLOT_BATT_CHARGE_PERCENT

Parameter	SLOT_BATT_CHARGE_PERCENT
Command Types Supported	GET REP
Indexing	Channel Number Slot Number
Values	Format: Numeric, 3 character fixed output 000 - 0100 : Percent 255 : Unknown
Examples	<p>Transmitter is LINKED.ACTIVE:</p> <pre>< GET 1 SLOT_BATT_CHARGE_PERCENT 1 > < REP 1 SLOT_BATT_CHARGE_PERCENT 1 087 ></pre> <p>Reports occur as the battery is first calculating, then depletes:</p> <pre>< REP 1 SLOT_BATT_CHARGE_PERCENT 1 087 > ... < REP 1 SLOT_BATT_CHARGE_PERCENT 1 086 > ... < REP 1 SLOT_BATT_CHARGE_PERCENT 1 085 ></pre> <p>Transmitter is out of range, or not applicable</p> <pre>< REP 1 SLOT_BATT_CHARGE_PERCENT 1 255 ></pre>
System Data References / Notes	Linked.Active Tx: Battery Charge Percent

SLOT_BATT_CYCLE_COUNT

Parameter	SLOT_BATT_CYCLE_COUNT
Command Types Supported	GET REP
Indexing	Channel Number Slot Number

Values	Format: Numeric, 5 character fixed output 00000 - 65534 : Number of cycles 65535 : Unknown
Examples	Transmitter is LINKED.ACTIVE: < GET 1 SLOT_BATT_CYCLE_COUNT 1 > < REP 1 SLOT_BATT_CYCLE_COUNT 1 00013 > Transmitter is out of range, or not applicable: < REP 1 SLOT_BATT_CYCLE_COUNT 1 65535 >
System Data References / Notes	Linked.Active Tx: Battery Cycle Count

SLOT_BATT_HEALTH_PERCENT

Parameter	SLOT_BATT_HEALTH_PERCENT
Command Types Supported	GET REP
Indexing	Channel Number Slot Number
Values	Format: Numeric, 3 character fixed output 000 - 0100 : Percent 255 : Unknown
Examples	Transmitter is LINKED.ACTIVE: < GET 1 SLOT_BATT_HEALTH_PERCENT 1 > < REP 1 SLOT_BATT_HEALTH_PERCENT 1 097 > Reports as the Transmitter is ON/OFF: < REP 1 SLOT_BATT_HEALTH_PERCENT 1 097 > ... < REP 1 SLOT_BATT_HEALTH_PERCENT 1 255 > ... < REP 1 SLOT_BATT_HEALTH_PERCENT 1 096 >
System Data References / Notes	Linked.Active Tx: Battery Health Percent

SLOT_BATT_MINS

Parameter	SLOT_BATT_MINS
Command Types Supported	GET REP
Indexing	Channel Number Slot Number
Values	Format: Numeric, 5 character fixed output 00000 - 65532 : Number of minutes of run time 65533 : Battery communication warning. (Check contacts) 65534 : Battery time calculating 65535 : Unknown, or not applicable
Examples	Transmitter is LINKED.ACTIVE: < GET 1 SLOT_BATT_MINS 1 > < REP 1 SLOT_BATT_MINS 1 00360 > Reports occur as the battery is first calculating, then depletes: < REP 1 SLOT_BATT_MINS 1 65534 > < REP 1 SLOT_BATT_MINS 1 00300 > ... < REP 1 SLOT_BATT_MINS 1 00299 > Transmitter is out of range: < GET 1 SLOT_BATT_MINS 1 > < REP 1 SLOT_BATT_MINS 1 65535 >
System Data References / Notes	Linked.Active Tx: Battery Mins

SLOT_BATT_TYPE

Parameter	SLOT_BATT_TYPE
Command Types Supported	GET REP Note: While it is possible to SET the battery type using this command string, that setting is more appropriately set using the transmitter controls.
Indexing	Channel Number Slot Number

Values	LION ALKA NIMH LITH UNKN - Either no transmitter or not supported by transmitter
Examples	Transmitter is LINKED.ACTIVE: < GET 1 SLOT_BATT_TYPE 1 > < REP 1 SLOT_BATT_TYPE 1 LION > Transmitter is out of range, or a not-supported by Transmitter: < GET 1 SLOT_POLARITY 1 > < REP 1 SLOT_POLARITY 1 UNKN > < SET 1 SLOT_POLARITY 1 ALKA > < REP ERR >
System Data References / Notes	Linked.Active Tx: Battery Current Type

SLOT_INPUT_PAD

Parameter	SLOT_INPUT_PAD
Command Types Supported	GET SET REP
Indexing	Channel Number Slot Number
Values	Format: Numeric, 3 character fixed output actualValue = reportedValue - 12 000 : Input Pad is ON (-12 dB) 012 : Input Pad is OFF (0 dB) 255 : Unknown, or Input Pad is not applicable to the transmitter variant Note: A remotely controllable Input Pad is applicable to ADX1. All others indicate unknown.

Examples	<p>Transmitter is LINKED.ACTIVE, input pad not engaged:</p> <pre>< GET 1 SLOT_INPUT_PAD 1 > < REP 1 SLOT_INPUT_PAD 1 012 ></pre> <p>To engage the input pad:</p> <pre>< SET 1 SLOT_INPUT_PAD 1 0 > < REP 1 SLOT_INPUT_PAD 1 000 ></pre> <p>Transmitter is out of range, or property not supported by the transmitter variant:</p> <pre>< GET 1 SLOT_INPUT_PAD 1 > < REP 1 SLOT_RF_OUTPUT 1 255 ></pre> <pre>< SET 1 SLOT_RF_OUTPUT 1 0 > < REP ERR ></pre>
System Data References / Notes	Linked.Active Tx: Input Pad

SLOT_OFFSET

Parameter	SLOT_OFFSET
Command Types Supported	GET SET (INC, DEC) REP
Indexing	Channel Number Slot Number
Values	Format: Numeric, 3 character fixed ActualValue = ReportedValue - 12 Actual Range: -12 to +21 dB in 1 dB steps. Range: 000 to 032 255: Unknown

Examples	<p>Get for Linked.Active transmitter: (default)</p> <pre>< GET 1 SLOT_OFFSET 1 > < REP 1 SLOT_OFFSET 1 012 ></pre> <p>SET for Linked.Active transmitter: to min value:</p> <pre>< SET 1 SLOT_OFFSET 1 0 > < REP 1 SLOT_OFFSET 1 000 ></pre> <p>SET for Linked.Active transmitter: (demonstrating INC and DEC)</p> <pre>< SET 1 SLOT_OFFSET 1 INC 5 > < REP 1 SLOT_OFFSET 1 005 ></pre> <pre>< SET 1 SLOT_OFFSET 1 INC 5 > < REP 1 SLOT_OFFSET 1 010 ></pre> <pre>< SET 1 SLOT_OFFSET 1 DEC 2 > < REP 1 SLOT_OFFSET 1 008 ></pre> <p>Attempt to GET/SET for an unsupported or out of range transmitter:</p> <pre>< GET 1 SLOT_OFFSET 1 > < REP 1 SLOT_OFFSET 1 255 ></pre> <pre>< SET 1 SLOT_OFFSET 1 012 > < REP ERR ></pre>
System Data References / Notes	Linked.Active Tx: Audio: Mic Gain Offset

SLOT_POLARITY

Parameter	SLOT_POLARITY
Command Types Supported	GET SET REP
Indexing	Channel Number Slot Number
Values	POSITIVE NEGATIVE UNKNOWN - Either no transmitter or not supported by transmitter Note: Polarity is only supported by ADX1, ADX1M.

Examples	<p>Transmitter is LINKED.ACTIVE:</p> <pre>< GET 1 SLOT_POLARITY 1 > < REP 1 SLOT_POLARITY 1 POSITIVE > < SET 1 SLOT_POLARITY 1 NEGATIVE > < REP 1 SLOT_POLARITY 1 NEGATIVE ></pre> <p>Transmitter is out of range, or a not-supported transmitter such as ADX2:</p> <pre>< GET 1 SLOT_POLARITY 1 > < REP 1 SLOT_POLARITY 1 UNKNOWN > < SET 1 SLOT_POLARITY 1 POSITIVE > < REP ERR ></pre>
System Data References / Notes	Linked.Active Tx: Audio Polarity

SLOT_RF_OUTPUT

Parameter	SLOT_RF_OUTPUT
Command Types Supported	GET SET REP
Indexing	Channel Number Slot Number
Values	UNKNOWN RF_ON RF_MUTE

Examples	<p>Transmitter is LINKED.ACTIVE:</p> <pre>< GET 1 SLOT_RF_OUTPUT 1 > < REP 1 SLOT_RF_OUTPUT 1 RF_ON ></pre> <p>< SET 1 SLOT_RF_OUTPUT 1 RF_MUTE > < REP 1 SLOT_RF_OUTPUT 1 RF_MUTE ></p> <p>Transmitter is out of range:</p> <pre>< GET 1 SLOT_RF_OUTPUT 1 > < REP 1 SLOT_RF_OUTPUT 1 UNKNOWN ></pre> <p>< SET 1 SLOT_RF_OUTPUT 1 RF_MUTE > < REP ERR ></p>
System Data References / Notes	Linked.Active Tx: RF Output

SLOT_RF_POWER

Parameter	<p>SLOT_RF_POWER</p> <p>Note: This is the actual power level the unit is operating on. Use SLOT_RF_POWER_MODE to set the logical level (LOW, NORMAL, HIGH)</p>
Command Types Supported	<p>GET REP</p>
Indexing	Channel Number Slot Number
Values	<p>Format: Numeric, 3 character fixed output</p> <p>002, 010, 020, 035, 040, 050 : Typical values</p> <p>255 : Unknown</p>

Examples	<p>Transmitter is LINKED.ACTIVE: < GET 1 SLOT_RF_POWER 0 > < REP 1 SLOT_RF_POWER 1 002 ></p> <p>Transmitter is out of range: < SET 1 SLOT_RF_POWER 1 10 > < REP ERR ></p> <p>Reports as the level changes: < REP 1 SLOT_RF_POWER 1 040 ></p> <p>< REP 1 SLOT_RF_POWER 1 010 ></p> <p>< REP 1 SLOT_RF_POWER 1 255 ></p>
System Data References / Notes	Linked.Active Tx: RF: Transmit Power Level (Actual mW)

SLOT_RF_POWER_MODE

Parameter	<p>SLOT_RF_POWER_MODE</p> <p>This is the logical power level the unit is operating on.</p>
Command Types Supported	<p>GET SET REP</p>
Indexing	Channel Number Slot Number
Values	<p>Format: String</p> <p>UNKNOWN</p> <p>LOW</p> <p>NORMAL</p> <p>HIGH</p> <p>Note: Some RF Bands or modes do not support HIGH and any attempt to use HIGH returns a REP ERR.</p>

Examples	<p>Transmitter is LINKED.ACTIVE: < GET 1 SLOT_RF_POWER_MODE 1 > < REP 1 SLOT_RF_POWER_MODE 1 NORMAL ></p> <p>Using SET (note both responses): < SET 1 SLOT_RF_POWER_MODE 1 LOW > < REP 1 SLOT_RF_POWER_MODE 1 LOW > < REP 1 SLOT_RF_POWER 1 002 ></p> <p>Transmitter is out of range: < SET 1 SLOT_RF_POWER 1 LOW > < REP ERR ></p> <p>Reports as the level changes: < REP 1 SLOT_RF_POWER_MODE 1 HIGH > < REP 1 SLOT_RF_POWER 1 040 ></p> <p>Unit changes frequency to a more restrictive HIGH Power allowed value: < REP 1 SLOT_RF_POWER 1 020 ></p>
System Data References / Notes	Linked.Active Tx: RF: Transmit Power Level (Mode)

SLOT_SHOWLINK_STATUS

Parameter	SLOT_SHOWLINK_STATUS
Command Types Supported	GET REP
Indexing	Channel Number Slot Number
Values	Format: Numeric, 3 character fixed output 001 - 005 255 : Unknown

Examples	<p>Transmitter is LINKED.ACTIVE:</p> <pre>< GET 1 SLOT_SHOWLINK_STATUS 1 > < REP 1 SLOT_SHOWLINK_STATUS 1 005 ></pre> <p>Transmitter is out of range:</p> <pre>< GET 1 SLOT_SHOWLINK_STATUS 1 > < REP 1 SLOT_SHOWLINK_STATUS 1 255 ></pre> <p>Reports as the level changes:</p> <pre>< REP 1 SLOT_SHOWLINK_STATUS 1 003 > < REP 1 SLOT_SHOWLINK_STATUS 1 004 > < REP 1 SLOT_SHOWLINK_STATUS 1 005 ></pre>
System Data References / Notes	Linked.Active Tx: ShowLink Signal Quality (Bars)

SLOT_STATUS

Parameter	SLOT_STATUS
Command Types Supported	GET REP
Indexing	Channel Number Slot Number
Values	<p>EMPTY : No transmitter is registered in the slot</p> <p>STANDARD : An AD (standard) transmitter is registered in the slot</p> <p>LINKED.INACTIVE : An ADX (enhanced) transmitter is registered, linked, but the receiver is not connected to the live transmitter at this time</p> <p>LINKED.ACTIVE : An ADX (enhanced) transmitter is registered, linked and the receiver is connected. You can remotely adjust the transmitter now.</p>

Examples	<p>An empty slot:</p> <pre>< GET 1 SLOT_STATUS 1 > < REP 1 SLOT_STATUS 1 EMPTY ></pre> <p>Slot 1 with an AD transmitter:</p> <pre>< GET 1 SLOT_STATUS 1 > < REP 1 SLOT_STATUS 1 STANDARD ></pre> <p>Slot 2 with an ADX transmitter that is online:</p> <pre>< GET 1 SLOT_STATUS 2 > < REP 1 SLOT_STATUS 2 LINKED.ACTIVE ></pre> <p>The transmitter goes offline: (among others)</p> <pre>< REP 1 SLOT_STATUS 2 LINKED.INACTIVE ></pre> <p>The user registers an AD1 to SLOT 2:</p> <pre>< REP 1 SLOT_STATUS 2 STANDARD ></pre> <p>The user unlinks or cleans up slot 2 or moves the transmitter:</p> <pre>< REP 1 SLOT_STATUS 2 EMPTY ></pre>
System Data References / Notes	Tx Mgt Registered Tx CID Tx Mgt Linked Tx CID Tx Mgt Link Status

SLOT_TX_DEVICE_ID

Parameter	SLOT_TX_DEVICE_ID
Command Types Supported	<p>GET SET REP</p> <p>Note: Only supports SET when SLOT_STATUS is LINKED.ACTIVE.</p>
Indexing	Channel Number Slot Number (1-8)
Values	<p>Format: Fixed String 31 character for REPorting the Device ID of the transmitter in the slot</p> <p>Empty slot: blank, all spaces</p> <p>1- 8 characters from the set: A-Z,a-z,0-9,!"#\$\$%&'()*+,-./:;<=>@[^_`~ and space</p>

Examples	<p>An Empty, Unregistered slot:</p> <pre>< GET 1 SLOT_TX_DEVICE_ID 1 > < REP 1 SLOT_TX_DEVICE_ID 1 { } ></pre> <p>A slot with an AD (standard) transmitter:</p> <pre>< GET 1 SLOT_TX_DEVICE_ID 1 > < REP 1 SLOT_TX_DEVICE_ID 1 {AD1 } ></pre> <p>An attempt to set the Device ID of an AD transmitter that is not supported:</p> <pre>< SET 1 SLOT_TX_DEVICE_ID 1 {Brian} > < REP ERR ></pre> <p>An attempt to set the Device ID of a Linked.Active ADX transmitter:</p> <pre>< SET 1 SLOT_TX_DEVICE_ID 1 {Brian} > < REP 1 SLOT_TX_DEVICE_ID 1 {Brian } ></pre>
System Data References / Notes	AD4: Tx Mgt: Registered Tx Device ID (x8) ADX Tx: Device ID

SLOT_TX_MODEL

Parameter	SLOT_TX_MODEL
Command Types Supported	GET REP
Indexing	Channel Number Slot Number (1-8)
Values	AD1 AD2 ADX1 ADX1M ADX2 ADX2FD UNKNOWN

Examples	<p>An empty slot:</p> <pre>< GET 1 SLOT_TX_MODEL 1 > < REP 1 SLOT_TX_MODEL 1 UNKNOWN ></pre> <p>An occupied slot:</p> <pre>< GET 1 SLOT_TX_MODEL 8 > < REP 1 SLOT_TX_MODEL 8 ADX1 ></pre>
System Data References / Notes	AD4: Tx Mgt: Registered Tx DCID (x8)