



CONVERGE PRO SERIAL COMMAND GUIDE

APPENDIX A: SERIAL COMMAND GUIDE

TYPE AND DEVICE IDS

Converge/Converge Pro Device Types and Device IDs by model are as follows:

Model	Device Type	Device ID Range
880	1	0-B
TH20	2	0-F
840T	3	0-B
8i	A	0-B
880T	D	0-B
880TA	H	0-B
SR 1212	G	0-B
SR 1212A	I	0-B

CONVENTIONS

This guide uses the following typographic conventions to describe Converge/Converge Pro serial command syntax:

Convention	Description
<X>	Parameters enclosed in < > indicate a mandatory parameter
[X]	Parameters enclosed in [] indicate an optional parameter
1-8	Parameters separated by a '-' indicate a range of allowable values
4,7,9	Parameters separated by a ',' indicate a list of allowable values
EREF	Words in UPPERCASE bold indicate command text
Device	Indicates the device type and device number on the Expansion Bus. It is composed of a device type character and a device ID character.

COMMAND FORM DESCRIPTION

The structure of serial commands is as follows:

<Device Type> <Device ID> <Command> [Values] <Carriage Return>

indicates the start of a command line, the Carriage Return terminates a command.

NOTE: Serial commands can be either UPPERCASE or lowercase. Return values are always in UPPERCASE. In order for a command to be recognized by the RS-232 serial port, the command must be terminated by a carriage return.

For example, a command to disable mute for Mic Input 5 on a Converge Pro 880 with a Device ID of 2 would have the command line **#12 MUTE 5 M 0**.

In this command line, 1 = the **Device Type** for Converge 880, 2 = the **Device ID** for unit 2, **MUTE** = serial command, 5 = the channel **Value**, M = the channel type **Value** for mic input channels, and 0 = the command **Value** that turns mute off.

If an asterisk (*) is placed in the **Device Type** or **Device ID** fields, the command will apply to all units or all devices respectively. For example, a command with a **Device Type** = 1 and a **Device ID** = * would apply the command to all Converge 880 units. A command with a **Device Type** = * and a **Device ID** = 6 would apply the command to all units with a Device ID of 6.

If a command specifies “(Null to query in text)” in its **Value** table, leave a blank in the command line to query the current state of that value. For example, the command **#12 MUTE 5 M <blank>** would return the current mute state of Mic 2 on an 880 unit with a Device ID of 0.

GROUPS AND CHANNELS

All serial commands use common alpha and numeric designators to reference channel groups, channel types, and other command values. Also, different channel groups have different allowable channel ranges, as shown in the following table.

Group	Alpha	Converge Pro 880 Channel Range	Converge Pro TH20 Channel Range	Converge Pro 840T Channel Range	Converge Pro 8i Channel Range	Converge 880T Channel Range	Converge 880TA Channel Range	Converge SR 1212 Channel Range	Converge SR 1212A Channel Range
Unknown	?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inputs	I	1-12	1-2	1-8	1-12	1-12	1-12	1-12	1-12
Outputs	O	1-12	1-2	1-9 (9 is the power amp)	N/A	1-13 (13 is the power amp)	1-8	1-12	1-12
Mic Input	M	1-8	N/A	1-4	1-8	1-8	1-8	1-8	1-8
Amplifier Output	J	N/A	N/A	N/A	N/A	N/A	1-4	N/A	1-4
Gating Group	G	1-4, A-F	N/A	1-4, A-F	1-4, A-F	1-4, A-F	1-4, A-F	1-4, A-F	1-4, A-F
Processing	P	A-H	N/A	A-H	A-H	A-H	A-H	A-H	A-H
Expansion Bus Audio Channels	E	O-Z, I-N	O-Z, I-N	O-Z, I-N	O-Z, I-N	O-Z, I-N	O-Z, I-N	O-Z, I-N	O-Z, I-N
Line Inputs	L	9-12	1-2	5-8	9-12	9-12	9-12	9-12	9-12
Expansion Bus Reference Channels	A	1-8	1-8	1-8	1-8	1-8	1-8	1-8	1-8
Unit	U	0 1 = LOG 2 = Site Wide	0 1 = LOG 2 = Site Wide	0 1 = LOG 2 = Site Wide	0 1 = LOG 2 = Site Wide	0 1 = LOG 2 = Site Wide	0 1 = LOG 2 = Site Wide	0 1 = LOG 2 = Site Wide	0 1 = LOG 2 = Site Wide
GPIO	Y	0	0	0	0	0	0	0	0
Matrix	X	0	0	0	0	0	0	0	0
Fader	F	1-4	N/A	1-4	N/A	1-4	N/A	1-4	N/A
Presets	S	1-32	1-32	1-32	1-32	1-32	1-32	1-32	1-32
Macros	C	1-255	1-255	1-255	1-255	1-255	1-255	1-255	1-255
Transmit	T	N/A	1	1	N/A	1	1	N/A	N/A
Receive	R	N/A	1	1	N/A	1	1	N/A	N/A
Dictionary	D	0	0	0	0	0	0	0	0
Phonebook	V	N/A	0	0	N/A	0	0	N/A	0
Virtual Reference	B	1 – 4	N/A	1 – 4	N/A	1 – 4	1-4	1 – 4	N/A
Timed Events	Q	1-10	1-10	1-10	1-10	1-10	1-10	1-10	1-10
Web	W	0	0	0	0	0	0	0	0
PA Virtual Reference	H	N/A	N/A	N/A	N/A	N/A	1-4	N/A	1-4

METER TYPE DEFINITIONS TABLE

Alpha	Numeric	Level Position for Mics	Level Position for Line Inputs	Level position for Outputs	Level Position for Telco TX	Level Position for Telco Rx	Level Position for Faders
I	1	Input level	Input level	Input level	Post Gain level	Input Level	N/A
A	2	Level post-gain adjustment, but pre-filter	Post Gain level	Post Gain level	Post Limiter level	Post Gain level	Level post gain adjustment
N	3	Level post-filter but pre-gate (non-gated level)	N/A	N/A	N/A	Level after Gain Stage	N/A
G	4	Level post-gate (gated level)	N/A	N/A	N/A	N/A	N/A
R	5	Echo Return Loss (Not SR 1212 / SR 1212A)	N/A	N/A	N/A	N/A	N/A
E	6	Echo Return Loss Enhancement (Not SR 1212 / SR 1212A)	N/A	N/A	N/A	N/A	N/A
T	7	ERL + ERLE (Not SR 1212 / SR 1212A)	N/A	N/A	N/A	N/A	N/A
C	9	AGC	AGC	N/A	N/A	N/A	N/A
Y	10	Pre AGC peak level meter	Pre AGC peak level meter	N/A	N/A	N/A	N/A
Z	11	Post AGC peak level meter	Post AGC peak level meter	N/A	N/A	N/A	N/A
B	12	Ambient	N/A	N/A	N/A	N/A	N/A
L	13	Room Loss <RETURNS 0's FOR NOW>	N/A	N/A	N/A	N/A	N/A

Alpha	Numeric	Level Position for Processors	Level Position for Amp
I	1	Level into Compressor	Input Level Post NOM
A	2	Level Post Compressor	Output Level Post Gain
N	3	Level Post Gain Stage	Feedback Max Auto Gain
G	4	N/A	Compressor Attenuation
R	5	N/A	Level Pre Compressor
E	6	N/A	Level Post Compressor
T	7	N/A	Adaptive Gain

Alpha	Numeric	Level Position for Processors	Level Position for Amp
C	9	N/A	Level of Adaptive Gain Noise Floor
Y	10	N/A	Level Post Mute/ Gain Pre EQ
Z	11	N/A	N/A
B	12	N/A	N/A
L	13	N/A	N/A

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SERIAL COMMANDS

Serial commands are shown in bold, followed by the command form and argument details.

AA – Auto Answer Enable / Disable

This command selects/reports the setting of auto answer.

Command Form: **DEVICE AA** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

AAMB – Adaptive Ambient Mode

This command selects/reports the setting of adaptive ambient.

Command Form: **DEVICE AAMB** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = toggle (Null to query in text)	

AARINGS – Number of Rings to Auto Answer On

This command selects/reports the setting of the number of rings to auto answer.

Command Form: **DEVICE AARINGS** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	2 - 4 (Null to query in text)	

ACONN – Audible Connect / Disconnect Indication

This command selects/reports the status of the audible connect / disconnect indication.

Command Form: **DEVICE ACONN** <Channel> [Value].

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

ACONNLVL – Audible Connect / Disconnect Level

This command selects/reports the audible connect / disconnect indicator's level.

Command Form: **DEVICE ACONNLVL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Signed Float	2	-12.00 – 12.00 (Null to query in text)	dB

AD – Auto Disconnect Enable / Disable

This command selects/reports the setting of auto disconnect.

Command Form: **DEVICE AD** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0 = Off 1 = Loop Drop 2 = Call Progress 3 = Loop Drop + Call Progress (Null to query in text)	

ADCLIP – Audio Clipping

This command reports the channels that are currently clipping their audio signals. **This command is read only.**
This command is implemented only for inputs.

Command Form: **DEVICE ADCLIP** [Values]

Argument	Type	Size	Values
Value	Bit Map of Inputs	2	XXXX XXXX XXXX XXXX → Input 1 (lsb) to 12 (msb) → Reserved (Null to query in text)
	Bit Map of Outputs	2	XXXX XXXX XXXX XXXX → Output 1 (lsb) to 13 (msb) → Reserved
	Bit Map of Processors	2	XXXX XXXX XXXX XXXX → Processor A (lsb) to H (msb) ----- → Reserved
	Bit Map of Faders	1	XXXX XXXX ----- → Faders 1 (lsb) to 4 (msb) ----- → Reserved
	Bit Map of Telco	1	XXXX XXXX → Telco RX → Telco TX ----- → Reserved

ADPRESENT – Audio Presence

This command displays the channels that currently have valid audio signals present. **This command is read only.**

Command Form: **DEVICE ADPRESENT** [Values]

Argument	Type	Size	Values
Value	Bit Map of Inputs	2	XXXX XXXX XXXX XXXX → Input 1 (lsb) to 12 (msb) → Reserved (Null to query in text)
	Bit Map of Outputs	2	XXXX XXXX XXXX XXXX → Output 1 (lsb) to 13 (msb) → Reserved
	Bit Map of Processors	2	XXXX XXXX XXXX XXXX → Processor A (lsb) to H (msb) ----- → Reserved
	Bit Map of Faders	1	XXXX XXXX ----- → Faders 1 (lsb) to 4 (msb) ----- → Reserved
	Bit Map of Telco	1	XXXX XXXX → Telco RX → Telco TX ----- → Reserved

AEC – Acoustic Echo Cancellation Enable / Disable

This command selects/reports the setting of Acoustic Echo Canceller.

Command Form: **DEVICE AEC** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

AGC – Automatic Gain Control

This command selects/reports the setting of automatic gain control.

Command Form: **DEVICE AGC** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 3, 7 (I, M, L)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

AGCSET – Automatic Gain Control Adjust

This command selects/reports the settings of the Automatic Gain Control.

Command Form: **DEVICE AGCSET** <Channel> <Group> [Threshold Target Attack Gain]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 3, 7 (I, M, L)	
Threshold	Signed Integer	1	-50 – 0 (Null to query in text)	dB
Target	Signed Integer	1	-30 – 20	dB
Response Time	Unsigned Float	2	0.10 – 10.00	S
Gain	Unsigned Float	2	0.00 – 18.00	dB

AMBLVL – Ambient Level Adjust

This command selects/reports the ambient level.

Command Form: **DEVICE AMBLVL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Signed Float	2	-80.00 – 0.00 (Null to query in text)	dB

AMXDUET – Use AMX Duet Discovery

This command sets and reports the status of AMX Duet Discovery.

Command Form: **DEVICE AMXDUET** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = Off 1 = On 2 = toggle (Null to query in text)	

AUDIOMASTER – Expansion Bus Audio Master Mode

This command reports the mode of the unit for control of the expansion bus audio.

Command Form: **DEVICE AUDIOMASTER** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	1 = Master 2 = Slave (Null to query in text)	

AV – Adaptive Volume

This command enables/disables adaptive volume tracking on a power amplifier channel.

Command Form: **DEVICE AV** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Signed Float	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

AVG – Adaptive Volume Gain

This command sets the maximum gain setting that the algorithm will not exceed.

Command Form:

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupsAndChannels	
Group	Group	1	23 (J)	
Value	Signed Short	2	0.00 to +18.00 (Null to query in text)	dB

AVR – Adaptive Volume Reference

This command selects/reports the microphone or expansion bus reference channel to be used for adaptive volume tracking on a power amplifier channel.

Command Form: **DEVICE AVR** [CHANNEL] [GROUP]

Argument	Type	Size	Values	Units
Channel	Channel	1	(M) 1-8 (E) 1-18 (Null to query in text)	
Group	Group	1	3, 6 (M or E)	

AVRT – Adaptive Volume Ratio

This command sets the ratio at which gain will be automatically applied based upon the ambient level in the reference microphone. Example: A 1:1 setting would apply 1 dB of gain for every 1dB rise in ambient level of the reference microphone up to the Max Gain setting.

Command Form: **DEVICE AVRT** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = 2:1 1 = 1:1 2 = 1:2 (Null to query in text)	Ratio

AVT – Adaptive Volume Threshold

This command sets the level at which the adaptive volume algorithm will be activated. This value is referenced to the noise floor of the channel and the target above ambient for the adaptive volume to reach.

COMMAND FORM: Device **AVT** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Value	Signed Short	2	-80.00 to 0.00 (Null to query in text)	

BAUD – Baud Rate

This command selects/reports the baud rate of the serial port.

Command Form: **DEVICE BAUD** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	9600, 19200, 38400, 57600, 115200 (Null to query in text)	

CALLDUR – Call Duration

This command returns current call duration. If no call is active, this command returns 0. At the time of call termination, this command will automatically be sent out to report call duration. **This command is read only.**

Command Form: **DEVICE CALLDUR** <Channel> <Duration>

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Reserved		2	0	
Duration	String	8	String of format HR:MN:SS	

CALLERID – Reports Caller ID Information

This command reports Caller Identification Information. **This command is reportable only. It cannot be queried or set.**

Command Form: **DEVICE CALLERID** <Channel> <Number> <Argument>

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Reserved	Unsigned Integer	2	0	
Number	String	16	1 – 16 chars	
Label	String	16	1 – 16 chars	

CGROUP – Compressor Group Select

This command selects/reports the setting of the compressor group.

Command Form: **DEVICE CGROUP** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	5 (P)	
Value	Unsigned Integer	2	0 = none 1 – 4 (Null to query in text)	Compressor Group

CHAIRO – Chairman Override Mode

This command selects/reports the setting of chairman override.

Command Form: **DEVICE CHAIRO** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

CLEAREFFECT – Clear Effect Wide Band Telco Emulation

This command enables / disables or reports the current status of the clear effect.

Command Form: **DEVICE CLEAREFFECT** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

CLOCK – Clock Set

This command sets or reports the current time.

Command Form: **DEVICE CLOCK** [Date Month Year Hours Minutes Seconds Day]

Argument	Type	Size	Values	Units
Date	Unsigned Integer	1	1 – 31	
Month	Unsigned Integer	1	1 – 12	
Year	Unsigned Integer	2	2000 – 2099 (NULL to Query in Text)	
Hours	Unsigned Integer	1	00 – 23	
Minutes	Unsigned Integer	1	00 – 59	
Seconds	Unsigned Integer	1	00 – 59	
Day of Week	Unsigned Integer	1	1 = Sunday 2 = Monday 3 = Tuesday 4 = Wednesday 5 = Thursday 6 = Friday 7 = Saturday	

COMPDLY – Compressor Delay

This command sets signal compression delay on a Channel for look ahead compression functionality. Delay from 0-20 msec

Command Form: **DEVICE COMPDLY** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Integer	2	0-20 (Null to query in text)	msec

COMPDLYEN – Compressor Delay Enable

This command enables signal compression delay on a Channel for look-ahead compression functionality

Command Form: **DEVICE COMPDLYEN** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

COMPRESS – Compressor Adjust

This command selects/reports the settings of the compressor.

Command Form: **DEVICE COMPRESS** <Channel> [Threshold Ratio Attack Release Gain]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	5 (P)	
Threshold	Signed Integer	1	-60 – 20 (Null to query in text)	dB
Ratio	Unsigned Integer	1	1 – 20	
Attack	Unsigned Float	2	0.00 – 100.00	Ms
Release	Unsigned Integer	2	100 – 2000	Ms
Gain	Unsigned Float	4	0.00 – 20.00	dB

COMPSEL – Compression Select

This command selects/reports the compressor activation.

Command Form: **DEVICE COMPSEL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	5 (P)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

COUNTRY – Country Selection

This command sets / reports the country for telco compliance purposes.

Command Form: **DEVICE COUNTRY** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	1 = US / Canada 2 = Europe 3 = Mexico 4 = Australia 5 = South Africa 6 = Japan 7 = Brazil 8 = South Korea 9 = China 10 = Singapore 11 = Taiwan 12 = New Zealand 13 = India 14 = Hong Kong 15 = Malaysia 16 = Argentina (Null to query in text)	

CTRLMASTER – Control Master Mode

This command reports the mode of the unit for SNMP control.

Command Form: **DEVICE CTRLMASTER** [Value]

Argument	Type	Size	Values	Units
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Value	Unsigned Integer	4	1 = Master 2 = Slave (Null to query in text)
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DECAY – Decay Adjust

This command selects/reports the setting of the decay rate.

Command Form: **DEVICE DECAY** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	1 = Slow 2 = Medium 3 = Fast (Null to query in text)	

DEFAULT – Default The Unit

Sets the unit to factory defaults. **There is no query for this command.**

Command Form: **DEVICE DEFAULT**

No Arguments

DELAY – Delay Adjust

This command selects/reports the setting of delay time.

Command Form: **DEVICE DELAY** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	5 (P)	
Value	Unsigned Float	2	0.00 – 250.00 (Null to query in text)	Ms

DELAYSEL – Delay Select

This command selects/reports the delay activation of an assignable processing channel.

Command Form: **DEVICE DELAYSEL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	5 (P)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

DEVICENAME – Argument Identification Label

This selects/reports the Device Argument identification label of the specific channel.

COMMAND FORM: **DEVICE DEVICENAME** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 7 (I, O, M, L)	

Reserved Unsigned Integer 2 0

Label String 12 1 – 12 characters
 CLEAR = clear the label
 (Null to query in text)

DEVICESUBTYPE – Sets the Subtype of a Connected Device

This command enables/disables or reports the current type of device connected to an input or output.

Command Form: **DEVICE DEVICESUBTYPE** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 7 (I, O, M, L)	
Value	Unsigned Integer	2	(NULL to query in text)	

DEVICETYPE – Sets the Type of a Connected Device

This command enables / disables or reports the current type of device connected to an input or output.

Command Form: **DEVICE DEVICETYPE** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 7 (I, O, M, L)	
Value	Unsigned Integer	2	(NULL to query in text)	

DFLTM – Default Meter

This command selects/reports the setting of the default meter on the front panel.

Command Form: **DEVICE DFLTM** [Channel Group Position]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels (Null to query in text)	
Group	Group	1	1, 2, 3, 7, 16, 17 (I, O, M, L, T, R)	
Position	Meter Type	2	1 – 4, as applicable for group See Meter Type Definitions	

DIAG – Diagnostic Commands

This command is used to return status and diagnostic information. It is intended to be used as a text command only.

This is a query only command.

Command Form: **DEVICE DIAG** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = List of current commands (J) Power Amp 1 = Fan/Temp 2 = Noise Gate 3 = Feedback Nodes	
Information	String	80	Diagnostic String (ALWAYS NULL IN TEXT)	

DIAL – DTMF Dialing

This command dials a DTMF sequence or reports back the last sequence dialed.

Command Form: **DEVICE DIAL** <Channel> [Number]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Reserved		2	0	
Number	String	40	1 – 40 Chars of '0' – '9', '*', '#', ',' (Null to query last number dialed in text)	

DID – Device ID

This command reports the device id. **This command is read only except through the front panel.**

Command Form: **DEVICE DID** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	See Type And Device IDs (Null sent in text, Value returned)	

DTMFLVL – DTMF Tone Level

This command selects/reports the DTMF tone level.

Command Form: **DEVICE DTMFLVL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Signed Float	2	-12.00 – 12.00 (Null to query in text)	dB

DTONELVL – Dial Tone Level

This command selects/reports the audible dial tone level.

Command Form: **DEVICE DTONELVL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Signed Float	2	-12.00 – 12.00 (Null to query in text)	dB

DUPDATE – Download Update

This command reports the status of download updates.

Command Form: **DEVICE DUPDATE** [Channel Group Status Percent Done Message]

Argument	Type	Size	Values	Units
Channel	Unsigned Integer	1		
Group	Unsigned Integer	1		
Status	Unsigned Integer	1	(Null to query in text)	
Percent Done	Unsigned Integer	1		
Message	Char	60		

DVER – Command Dictionary Version

This command reports the version of the command dictionary being used by the unit. **This command is read only.**

Command Form: **DEVICE DVER** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	(Sent with a Null in text)	

ENETADDR – Ethernet Port IP Address

This command selects/reports the IP address of the Ethernet port on the unit.

Command Form: `DEVICE ENETADDR [Value]`

Argument	Type	Size	Values	Units
Value	IP Address	4	(Null to query in text)	

ENETDHCP – Ethernet DHCP Selection

This command selects/reports the use of DHCP of the Ethernet port on the unit.

Command Form: `DEVICE ENETDHCP [Value]`

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)	

ENETDNS – Ethernet DNS Selection

This command selects/reports the use of DNS of the Ethernet port on the unit.

Command Form: `DEVICE ENETDNS [Value]`

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)	

ENETDNSA – Ethernet DNS Server Address

This command selects/reports the DNS server IP address of the Ethernet port on the unit.

Command Form: `DEVICE ENETDNSA [Value]`

Argument	Type	Size	Values	Units
Value	IP Address	4	(Null to query in text)	

ENETDNSA2 – Ethernet DNS Server Address 2

This command selects/reports the alternate DNS server IP address of the Ethernet port on the unit.

Command Form: `DEVICE ENETDNSA2 [Value]`

Argument	Type	Size	Values	Units
Value	IP Address	4	(Null to query in text)	

ENETDOMAIN – Ethernet Domain Argument

This command selects/reports the Domain Argument of the Ethernet port on the unit.

Command Form: `DEVICE ENETDOMAIN [Value]`

Argument	Type	Size	Values	Units
Value	String	64	(Null to query in text)	

ENETGATE – Ethernet Default Gateway Address

This command selects/reports the default gateway of the Ethernet port on the unit.

Command Form: **DEVICE ENETGATE** [Value]

Argument	Type	Size	Values	Units
Value	IP Address	4	(Null to query in text)	

ENETSUBN – Ethernet Subnet Mask

This command selects/reports the Subnet mask of the Ethernet port on the unit.

Command Form: **DEVICE ENETSUBN** [Value]

Argument	Type	Size	Values	Units
Value	IP Address	4	(Null to query in text)	

EREF – Expansion Bus Reference

This command selects an output or reports which output is the expansion bus reference.

Command Form: **DEVICE EREF** <Channel> [Value Channel Value Group]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Reference Channels in Groups and Channels	
Group	Group	1	8 (A, E)	
Value	Channel	1	0 = none See 2, 20 (O, B) in Groups and Channels (Null to query in text)	
Value	Group	1	0 for none or 2, 20 (N for none or O, B)	

EVENT – Run Scheduled Event

This command manually runs a scheduled event on a unit. **There is no query associated with this command.**

Command Form: **DEVICE EVENT** <Channel> <Group>

Argument	Type	Size	Values	Units
Channel	Channel	1	1 - 10	
Group	Group	1	21 (Q)	
Reserved	Unsigned Short	2	0	

FE – Feedback Elimination Enable

This command enables or disables feedback elimination on the power amplifier channel.

Command Form: **DEVICE FE** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = On 1 = Off 2 = Toggle (Null to query in text)	

FEB – Feedback Elimination Bandwidth

This command sets the filter bandwidth of the notch filter. Options are a Q = 5 or Q = 10

Command Form: **DEVICE FEB** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	

Value	Unsigned Short	2	0 = 5 1 = 10 Default 0 (5) (Null to query in text)
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FEDR – Feedback Elimination Dynamic Node Reset

This command will reset only the dynamic filters on the feedback eliminator. There is no query associated with this command.

Command Form: **DEVICE FEDR**<CHANNEL> <GROUP>

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Reserved	Zero	2	Value:0-16 (Null to query in text)	Nodes

FEF – Feedback Elimination Fixed Filter

This command sets the number of fixed filter to use in the feedback eliminator. The fixed filters number will be used during the initialization phase when gain is increased until feedback occurs. A fixed filter will be set at the feedback point during the initialization.

Command Form: **DEVICE FEF**<CHANNEL> <GROUP> [VALUE]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Reserved	Unsigned Short	2	Zero	

FEG – Feedback Elimination Auto Gain Max

This command sets the target gain for auto setup in feedback cancellation.

Command Form: **DEVICE FEG**<Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Reserved	Unsigned Short	2	0 - 8 (Null to query in text)	dB

FEGL – Feedback Elimination Gain Level

This command reports the gain value achieved at the end of the feedback automatic setup. The maximum value possible is set in the FEG command. **This is a query only command.**

Command Form: **DEVICE FEGL**<Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Value	Signed Float	2	-99.99 to 99.99 (Sent with Null, value returned)	dB

FELD – Feedback Elimination Lock Depth

This command sets the operation of a fixed filter node to be either locked or unlocked. In locked mode, the fixed filter's depth will remain the same after all the fixed filters are placed. In unlocked mode, the fixed filter's depth can be modified anytime until the maximum depth is achieved.

Command Form: **DEVICE FELD**<Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Value	Unsigned Float	2	0 = Locked 1 = Unlocked Default 0 (Null to query in text)	

FEM – Feedback Elimination Mode

This command set the feedback mode to either Music or Voice. This effects how aggressive the reduction is.

Command Form: **DEVICE FEM** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Value	Unsigned Float	2	0 = Locked 1 = Unlocked Default 0 (Null to query in text)	

FEN – Feedback Elimination Nodes

This command reports the total number of filter nodes (fixed and dynamic) currently being used for the feedback cancellation. **This is a query only command.**

Command Form: **DEVICE FEN** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	Total Nodes (ALWAYS NULL IN TEXT)	

FER – Feedback Elimination Node Reset

This command resets both the fixed and dynamic filters on the feedback eliminator. **There is no query associated with this command.**

Command Form: **DEVICE FER** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	Zero	

FERNG – Feedback Elimination Ring Elimination Mode

This command enables/disables the Ring Elimination Mode on the feedback eliminator.

Command Form: **DEVICE FERNG** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Reserved	Zero	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

FES – Feedback Elimination Setup

This command reset the feedback eliminator and initiates an automatic training cycle. When the automatic setup is complete, the FESC (Feedback Elimination Setup Complete) command will be issued. **There is no query associated with this command.**

Command Form: *DEVICE FES*<Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Reserved	Zero	2	Zero	

FESC – Feedback Elimination Setup Complete

This command reports when the automatic feedback eliminator setup training cycle is in progress. The training cycle is started using the command FES (Feedback Elimination Setup). **This is a query only command.**

Command Form: *DEVICE FESC*<Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Setup Complete 1 = Setup in Progress (Sent Null, Value Returned)	

FILTER – Filter Adjust

This command selects/reports the settings of a filter.

Command Form: *DEVICE FILTER* <Channel> <Group> <Node> [Type Frequency Gain/Slope Bandwidth/Subtype]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3, 5 (M, P)	
Node	Unsigned Integer	1	Group 3 1 – 4 Group 5 1 – 15	
Type	Unsigned Integer	1	0 = None 1 = All Pass 2 = Low Pass 3 = High Pass 4 = Low Shelving 5 = High Shelving 6 = Parametric Equalizer 7 = CD Horn 8 = Bessel Crossover 9 = Butterworth Crossover 10 = Linkwitz-Riley Crossover 11 = Notch (Null to query in text)	
Frequency	Unsigned Float	4	Type 0 0 (Null in text) Type 1 – 6, 8 – 11 20.00 – 20000.00 Type 7 500.00 – 5000.00	Hz
Gain/Slope	Signed Float	2	Type 0 – 3, 7, 11 0 (Null in text) Type 4 – 6 -15.00 – 15.00 Type 8 – 9 12, 18, 24 Type 10 12, 24	dB / dB per Octave
Bandwidth/Subtype	Unsigned Float	2	Type 0 – 5, 7 0 (Null in text) Type 6, 11 0.05 – 5.00 Type 8 – 10 2 = Low Pass 3 = High Pass	Octaves / Type

FILTSEL – Filter Select

This command turns on and off the filters.

Command Form: *DEVICE* **FILTSEL** <Channel> <Group> <Node> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3, 5 (M, P)	
Node	Unsigned Integer	1	Group 3 1 – 4 0xFF for all (* text) Group 5 1 – 15 0xFF for all (* text)	
Value	Unsigned Integer	1	0 = Off 1 = On 2 = Toggle (Null to query in text)	

FLOW – Flow Control

This command selects/reports the flow control of the serial port on the unit. Hardware flow control is implemented using DTR and DSR.

Command Form: *DEVICE* **FLOW** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)	

FMP – First Mic Priority Mode

This command selects/reports first Mic priority mode.

Command Form: *DEVICE* **FMP** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	4 (G)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

GAIN – Gain Adjustment

This command changes or reports back the gain for a channel.

Command Form: *DEVICE* **GAIN** <Channel> <Group> [Value] [Absol/Rel]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 5, 7, 12, 16, 17 (I, J, O, M, P, L, F, T, R)	
Value	Signed Float	2	-99.90 – 99.90 ** (Null to query in text)	dB
Absol / Rel		0	A = Absolute R = Relative Null = Relative	

NOTE: Values indicate valid range for entry values only. Actual internal range of the gain stage is from -65 to 20. Absolute values will be limited to the internal gain range.

GATE – Gate Status

This command reports the gate status of Mics. **This command is read only.**

Command Form: **DEVICE GATE** [Value]

Argument	Type	Size	Values	Units
Value	Hexadecimal	4	Bits 0 – 7 represent gate status on Mics 1 – 8 (Null sent in text, Value returned)	

GHOLD – Gate Hold Time Adjust

This command selects/reports the setting of hold time.

Command Form: **DEVICE GHOLD** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Float	2	0.10 – 8.00 (Null to query in text)	S

GMODE – Gating Mode

This command selects/reports the setting of gating mode.

Command Form: **DEVICE GMODE** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	1 = Auto 2 = Manual On 3 = Manual Off (Null to query in text)	

GOVER – Gating Override

This command selects/reports the setting of gating override.

Command Form: **DEVICE GOVER** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

GPIOSTATUS – General Purpose Status

This command sets the state of a General Purpose Status Pin.

Command Form: **DEVICE GPIOSTATUS** Pin Port [Value]

Argument	Type	Size	Values	Units
Pin	Unsigned Integer	1	1 – 24 (Only user definable status pins.	
Port	Unsigned Integer	1	1 – 2	
Value	Unsigned Integer	2	0 = High 1 = Low 2 = Toggle (NULL to query in text)	

GRATIO – Gate Ratio Adjust

This command selects/reports the setting of the gate ratio.

Command Form: **DEVICE GRATIO** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 – 50 (Null to query in text)	dB

GREPORT – Gate Report

This command selects/reports the mode of gate and audio presence status reporting.

Command Form: **DEVICE GREPORT** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)	

GRPSEL – Gating Group Select

This command selects/reports which Gating Group a microphone input is assigned.

Command Form: **DEVICE GRPSEL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Channel	2	See 4 (G) in Groups and Channels (Null to query in text)	

HOOK – Hook Flash

This command sends a hook flash. **There is no query for this command.**

Command Form: **DEVICE HOOK** <Channel>

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Reserved		2	0	

HOOKD – Hook Flash Duration

This command selects/reports the hook flash duration.

Command Form: **DEVICE HOOKD** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	50 – 2000 (Multiples of 10 Ms only) (Null to query in text)	Ms

LABEL – Label

This selects/reports the label of the specific channel or the unit.

Command Form: **DEVICE LABEL** <Channel> <Group> [In/Out] [Value]

Argument	Type	Size	Values
Channel	Channel	1	See Groups and Channels
Group	Group	1	1, 2, 3, 4, 5, 6, 7, 8, 12, 13, 14, 16, 17, 20 (H, I, J, O, M, G, P, E, L, A, F, S, C, T, R, B)
Input / Output to Matrix	Unsigned Integer	2	Groups all but 6 0 Groups 6 0 = output 1 = input
Label	String	20	1 – 20 characters CLEAR = clear the label (Null to query in text)

LCDCONTRAST – LCD Contrast

This command selects/reports the LCD Contrast Setting.

Command Form: **DEVICE LCDCONTRAST** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 (lightest) – 63 (darkest) (Null to query in text)	

LMO – Last Mic On Mode

This command selects/reports last Mic on mode.

Command Form: **DEVICE LMO** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	4 (G)	
Value	Unsigned Integer	2	0 = Off 1 - 8 = Mic 1 – 8 to be the last mic 0xFF (* in text) = Last Mic to stay on (Null to query in text)	

LOCALNUM – Local Number

This command sets or reports back the current value of the local number.

Command Form: **DEVICE LOCALNUM** <Channel> [Number]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Reserved		2	0	
Number	String	16	1 – 16 Chars of '0' – '9', '*', '#', ',' (Null to query in text)	

LOCBLDG – Location: Building

This command sets/reports the location of the unit: Building string.

Command Form: **DEVICE LOCBLDG** [Value]

Argument	Type	Size	Values	Units
Value	String	80	CLEAR = Clear current value 1 – 63 Characters (Null to query in text)	

LOCCITY – Location: City

This command sets/reports the location of the unit: City string.

Command Form: **DEVICE LOCCITY** [Value]

Argument	Type	Size	Values	Units
Value	String	80	CLEAR = Clear current value 1 – 63 Characters (Null to query in text)	

LOCCNTRY – Location: Country

This command sets/reports the location country of the unit.

Command Form: **DEVICE LOCCNTRY** [Value]

Argument	Type	Size	Values	Units
Value	String	80	CLEAR = Clear current value 1 – 63 Characters (Null to query in text)	

LOCCOMP – Location: Company

This command sets/reports the location of the unit: Company string.

Command Form: **DEVICE LOCCOMP** [Value]

Argument	Type	Size	Values	Units
Value	String	80	CLEAR = Clear current value 1 – 63 Characters (Null to query in text)	

LOCREGION – Location: Region

This command sets/reports the location of the unit: Region string.

Command Form: **DEVICE LOCREGION** [Value]

Argument	Type	Size	Values	Units
Value	String	80	CLEAR = Clear current value 1 – 63 Characters (Null to query in text)	

LOCROOM – Location: Room

This command sets/reports the location of the unit: Room string.

Command Form: **DEVICE LOCROOM** [Value]

Argument	Type	Size	Values	Units
Value	String	80	CLEAR = Clear current value 1 – 63 Characters (Null to query in text)	

LOCSITENAME – Location: Site Argument

This command sets/reports the location of the unit Site name.

Command Form: **DEVICE LOCSITENAME** [Value]

Argument	Type	Size	Values	Units
Value	String	80	CLEAR = Clear current value 1 – 64 Characters (Null to query in text)	

LOCSTATE – Location: State

This command sets/reports the location of the unit: State/Prefecture string.

Command Form: **DEVICE LOCSTATE** [Value]

Argument	Type	Size	Values	Units
Value	String	80	CLEAR = Clear current value 1 – 63 Characters (Null to query in text)	

LOGMASK – Device Log Mask

This command sets or reports the device event log mask.

Command Form: **DEVICE LOGMASK** [Value]

Argument	Type	Size	Values	Units
Value	Hexadecimal	4	XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX > Reset > Errors > Password Access > Telco On/Off > Dial > Call Duration > System Checks > Firmware Download > (Reserved) > Default > (Reserved) > (Reserved) > Safety Mute > Macro Execution > Preset Execution > Audio Clipping > Microphone Gains > Processor Gains > Fader Gains > Telco Gains > Power Amp. Gains > Power Amp. Errors > Caller ID > SIP Message Log ----- > (Reserved) (Null to query in text)	

LVL – Level

This command reports the level of a channel. **This command is read only.**

Command Form: **DEVICE LVL** <Channel> <Group> <Position> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 5, 7, 12, 16, 17, 20 (I, J, O, M, P, L, F, T, R)	
Position	Meter Type	2	See Meter Type Definitions	
Value	Signed Float	4	-99.99 – 99.99 (Sent with Null in text, Value returned)	dB

LVLREPORT – Level Report

This command selects/reports the status of level reporting for the specified channel.

Command Form: *DEVICE* **LVLREPORT** <Channel> <Group> <Position> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 5, 7, 12, 16, 17 (I, J, O, M, P, L, F, T, R)	
Position	Meter Type	2	See Meter Type Definitions	
Value	Unsigned Integer	4	0 = Off (Delete from list being reported) 1 = On (Add to list being reported) 2 = Toggle (Null to query in text)	

LVLREPORTEN – Level Report Enable

Enables level reporting for the unit.

Command Form: *DEVICE* **LVLREPORTEN** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = Turn off reporting but leave current list 1 = Turn on reporting 2 = Turn off reporting and clear the list (Null to query in text)	

MACRO – Macro Execution/Reporting

This command executes a specified macro or reports the last macro executed.

Command Form: *DEVICE* **MACRO** [Value]

Argument	Type	Size	Values	Units
Value	Channel	4	See 14 (C) in Groups and Channels (Null to query last macro ran in text)	

NOTE: The response will indicate successful execution of the macro, but it does not guarantee that each command in the macro was executed.

MANUFACTURER – Manufacturer Identification Label

This command selects/reports the model identification label of the specified channel.

Command Form: *DEVICE* **MANUFACTURER** <Channel> <Group> <Reserved> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 7 (I, O, M, L)	
Reserved	Unsigned Integer	2	0	
Label	String	16	1-16 characters CLEAR = clear the label (Null to query in text)	dB

MAX – Maximum Gain Setting

This command changes or reports back the maximum gain setting for an input, output or assignable processing block.

Command Form: *DEVICE* **MAX** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 5, 7, 12, 16, 17 (I, O, M, P, L, F, T, R)	
Value	Signed Float	2	-65.00 – 20.00 (Null to query in text)	dB

MC – Multi-Channel Mode

This command groups audio controls for channels. Audio Controls include Gain, Ramp Gain, and Mute.

Command Form: *DEVICE* **MC** <Channel> <Group> [Value]

Argument	Type	Size	Values
Channel	Channel	1	1 – n (Max number of channels in Multi-Channel Group divided by 2)
Group	Group	1	128 (No text group)
Multi-Channel Group	Group	2	Only 23 (J) accepted for now. See GroupAndChannels
Bitmap	Hexadecimal Integer	4	

MCGAIN – Multi-Channel Gain

This command that groups adjusts/reports audio gain of the grouped channels.

Command Form: *DEVICE* **MCGAIN** <Channel> <Group> [Value] [Absol/Rel]

Argument	Type	Size	Values	Units
Channel	Channel	1	1 – n (Max number of channels in Multi-Channel Group divided by 2)	
Group	Group	1	128 (No text group)	
Multi-Channel Group	Unsigned Integer	2	Only 23 (J) accepted for now. See GroupAndChannels	
Value	String	4	-99.90 – 99.90 (Null to query in text)	dB
Absol./Rel.		0	A = Absolute R = Relative Null = Relative	

MCMINMAX – Multi-Channel Min and max Gain Setting

This command changes or reports back the minimum and maximum gain setting for a channel

Command Form: **DEVICE MCMINMAX** <Channel> <Group> [Value] [Min Max]

Argument	Type	Size	Values	Units
Channel	Channel	1	See GroupAndChannels	
Group	Group	1	128 (No text group)	
Multi-Channel Group	Group	2	Only 23 (J) accepted for now. See GroupAndChannels	
Value	Signed Short	2	-65.00 – 20.00 (Null to query in text)	dB
Max	Signed Short	2	-65.00 – 20.00	dB

MCMUTE – Multi-Channel Min and Max Gain Setting

This command performs/reports audio mutes of the grouped channels.

Command Form: **DEVICE MCMUTE** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	1 – n (Max number of channels in Multi-Channel Group divided by 2)	
Group	Group	1	128 (No text group)	
Multi-Channel Group	Group	1	Only 23 (J) accepted for now. See GroupAndChannels	
Value	Unsigned Char	1	0 = Off 1 = On 2 = Toggle (Null to query in text)	

MCRAMP – Multi-Channel Ramp

This command performs audio gain ramps of the grouped channels. **There is no query associated with this command.**

Command Form: **DEVICE MCRAMP** <Channel> <Multi-Channel Group> <Rate> <Target>

Argument	Type	Size	Values	Units
Channel	Channel	1	1 – n (Max number of channels in Multi-Channel Group divided by 2)	
Group	Group	1	128 (No text group)	
Multi-Channel Group	Group	2	Only 23 (J) accepted for now. See GroupAndChannels	
Rate	Signed Integer	2	-50 – 50 If value = 0, the ramp will stop. If value < 0, the gain will ramp down. If value > 0, the gain will ramp up.	dB / sec
Target	Signed Integer	2	-65 – 20 If NULL in text or 0x80 in binary, the ramp will use the channel's maximum and minimum for a target.	dB

MIN – Minimum Gain Setting

This command changes or reports back the minimum gain setting for a channel.

Command Form: **DEVICE MIN** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 5, 7, 12, 16, 17 (I, J, O, M, P, L, F, T, R)	
Value	Signed Float	2	-65.00 – 20.00 (Null to query in text)	dB

MINMAX – Minimum and Maximum Gain Setting

This command changes or reports back the minimum and maximum gain setting for a channel.

Command Form: **DEVICE MINMAX** <Channel> <Group> [Min Max]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 5, 7, 12, 16, 17 (I, J, O, M, P, L, F, T, R)	
Min	Signed Float	2	-65.00 – 20.00 (Null to query in text)	dB
Max	Signed Float	4	-65.00 – 20.00	dB

MLINE – Mic / Line Coarse Gain Setting

This command selects/reports the setting of coarse gain.

Command Form: **DEVICE MLINE** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = 0 dB 7 = 7 dB 14 = 14 dB 21 = 21 dB 28 = 28 dB 35 = 35 dB 41 = 41 dB 50 = 50 dB 56 = 56 dB (Null to query in text) (No other values are valid and accepted)	

MMAX – Maximum Number of Microphones

This command selects/reports the maximum number of microphones for a Gating Group.

Command Form: **DEVICE MMAX** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	4 (G)	
Value	Unsigned Integer	2	0 = Unlimited 1 - 8 = Maximum # of Mics (Null to query in text)	

MODEL – Model Identification Label

This command selects/reports the model identification label of the specified channel.

Command Form: *DEVICE* **MODEL** <Channel> <Group> <Reserved> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 7 (I, O, M, L)	
Reserved	Unsigned Integer	2	0	
Label	String	16	1-16 characters CLEAR = clear the label (Null to query in text)	dB

MTRX – Matrix Routing

This command selects/reports the matrix routing of an input to an output.

Command Form: *DEVICE* **MTRX** <Src. Ch.> <Src. Gp.> <Dest. Ch.> <Dest. Gp.> [Value]

Argument	Type	Size	Values	Units
Source Channel	Channel	1	See Groups and Channels	
Source Group	Group	1	1, 3, 5, 6, 7, 12, 17 (I, M, P, E, L, F, R)	
Destination Channel	Channel	1	See Groups and Channels	
Destination Group	Group	1	2, 5, 6, 12, 16, 20 (H, J, O, P, E, F, T, B)	
Value	Unsigned Integer	4	0 = Cross point off 1 = Cross point on (Not Valid for Mic Sources) 2 = Toggle (Not Valid for Mic Sources) 3 = Non Gated (Mic Sources Only) 4 = Gated (Mic Sources Only) 5 = Pre-AEC (Mic Sources Only) 6 = Routing Prohibited (Cross point is off and may not be turned on) (Null to query in text)	

MTRXCLEAR – Clear Matrix

Clears the ENTIRE matrix for the unit. **There is no query for this command.**

Command Form: *DEVICE* **MTRXCLEAR**

No Arguments

MTRXLVL – Matrix Attenuation Adjust

This command selects/reports the matrix level at the cross point.

Command Form:

DEVICE MTRXLVL <Src. Ch.> <Src. Gp.> <Dest. Ch.> <Dest. Gp.> [Value] [A/R]

Argument	Type	Size	Values	Units
Source Channel	Channel	1	See Groups and Channels	
Source Group	Group	1	1, 3, 5, 6, 7, 12, 17 (I, M, P, E, L, F, R)	
Destination Channel	Channel	1	See Groups and Channels	
Destination Group	Group	1	2, 5, 6, 12, 16, (H, J, O, P, E, F, T,)	
Value	Signed Float	4	-99.00 – 99.00 ** (Null to query in text)	dB
Absol / Rel		0	A = Absolute R = Relative Null = Relative	

NOTE: Values indicate entry range only. Actual internal range of the matrix attenuation is from –60 to +12dB, and absolute values are limited to the internal gain range.

MUTE – Mute

This command selects/reports the setting of mute on a channel.

Command Form: *DEVICE MUTE* <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 5, 7, 12, 16, 17 (I, J, O, M, P, L, F, T, R)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

NAME – Unit Name (NETBIOS Name)

This command sets/reports the name of the unit which is also used for its NETBIOS name.

Command Form: *DEVICE NAME* [Value]

Argument	Type	Size	Values	Units
Value	String	16	1 – 15 Characters (Null to query in text)	

NCD – Noise Cancellation Depth Adjust

This command selects/reports the depth setting of the Noise Cancellation.

Command Form: *DEVICE NCD* <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3, 17 (M, R)	
Value	Unsigned Integer	2	6 – 15 (Null to query in text)	dB

NCSEL – Noise Cancellation Select

This command selects/reports the setting of the Noise Cancellation for each microphone channel.

Command Form: **DEVICE NCSEL** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3, 17 (M, R)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

NLP – Non Linear Processing Adjust

This command selects/reports the setting of non-linear processing for each microphone channel.

Command Form: **DEVICE NLP** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = Off 1 = Soft 2 = Medium 3 = Aggressive (Null to query in text)	

NOM – Number of Open Microphones Mode

This command selects/reports the setting of Number of Open Microphones (NOM) on output channels.

Command Form: **DEVICE NOM** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	2, 16 (J, O, T)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

NTPSRV – NTP Network Time Server Address

This command selects/reports the IP addresses of the NTP Time Server the unit's NTP client requests time status from.

Command Form: **DEVICE NTPSRV** [Value 1 Value 2]

Argument	Type	Size	Values	Units
Value 1	IP Address	4	(Null to query in text)	
Value 2	IP Address	4		

NULL – Null the Telephone Line

This command nulls the telephone line. **There is no query for this command.**

Command Form: **DEVICE NULL** <Channel>

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	

Reserved 2 0

OFFA – Off Attenuation Mode

This command selects/reports the off attenuation value of a Mic channel.

Command Form: DEVICE **OFFA** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Float	2	0.00 – 60.00 (Null to query in text)	

PAA – PA Adaptive Mode

This command selects/reports PA adaptive mode for the specified Mic.

Command Form: DEVICE **PAA** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

PACEN – PA Softclipper Enable

This command changes enables the softclipper function on a power amplifier channel.

Command Form: DEVICE **PACEN** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

PAENERGY – PA Energy-saver mode

This command switches the 36-volt rails off and on for the power amplifier. It is intended to be used for a low power or energy saving mode.

Command Form: DEVICE **PAENERGY** [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Energy Saver Mode OFF (Power Amp On) 1 = Energy Saver Mode ON (Power Amp Off) (Null to query in text)	

PAEQEN – PA EQ Filter Enable

This command enables the EQ filter on a PA Channel

Command Form: **DEVICE PAEQEN** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

PAEQRST – PA EQ Filter Reset

This command resets the EQ Level for ALL bands in the filter bank. **There is no query associated with this command.**

Command Form: **DEVICE PAEQEN** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Reserved	Zero	2	Zero	

PAEQSET – PA EQ Filter Set

This command sets/reports the EQ Level for a given band in the filter bank

Command Form: **DEVICE PAEQEN** <Channel> <Group> <Band> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Band	Unsigned Short	2	1 = 32.25 Hz 2 = 62.5 Hz 3 = 125.0 Hz 4 = 250.0 Hz 5 = 500.0 Hz 6 = 1000.0 Hz 7 = 2000.0 Hz 8 = 4000.0 Hz 9 = 8000.0 Hz 10 = 16000.0 Hz	Hz
Value	Signed Float	4	-12.00 – 12.00 (Null to query in text)	dB

PAFLT – PA Fault

This indicates one of the power amplifier channels is in a FAULT condition. **This is Read-Only, and is automatically generated if a fault occurs.**

Command Form: **DEVICE PAEQEN** [Bitmap]

Argument	Type	Size	Values	
Bitmap	Hexadecimal Integer	4	31 30 ... 08 07 06 05 04 03 02 01 00	
				Frame Sync Fault
				PA Power Fault
				UART Fault
				DSP Memory Fault
				Amp 2 Fault
				Amp 1 Fault
				I2C Fault
				Fan Controller Fault
				SPI Fault
				<Bits 09 - 31 unused>

PAIMPED – PA Output Impedance

This command selects the output impedance for the PA channel to be either 8 ohms or 70/100V.

Command Form: **DEVICE PIAMPED** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = 8 ohms 1 = 70/100V (Null to query in text)	

PALEN – PA Limiter Enable

This command changes enables the Limiter on a power amplifier channel.

Command Form: **DEVICE PALEN** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

PALT – PA Limiter Threshold

This command sets the Limiter threshold on a power amplifier channel.

Command Form: **DEVICE PALT** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Signed Float	2	-65.00 to +20.00 (Null to query in text)	dB

PANGAT – PA Noise Gate Activation Timer

This command sets the Noise Gate activation timer. The noise gate will be activated if the timer conditions are met along with Gate thresholds.

Command Form: **DEVICE PANGAT** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	1 -16 (Null to query in text)	Minutes

PANGEN – PA Noise Gate Enabled

This command enables noise gating on a PA Channel.

Command Form: **DEVICE PANGEN** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = No Filter 1 = High Pass 2 = Low Pass 3 = Hi and Low Pass (Null to query in text)	

PANGF – PA Noise Gate Filter

This command sets either a High Pass or Low Pass filter to be used in the activation of the noise gate. This will affect the threshold conditions for activation of the gate. A low pass will remove noise floor contributions to gate threshold above **500** HZ. A high pass will remove noise floor contribution to gate threshold above below **2K**.

Command Form: **DEVICE PANGF** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

PANGM – PA Noise Gate Mode

This command sets the Noise Gate mode to be either manual or automatic. In manual mode the gate threshold will be used to activate. In auto mode the noise floor will be used to activate.

Command Form: **DEVICE PANGM** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Automatic 1 = Manual (Null to query in text)	

PANGT – PA Noise Gate Threshold

This command sets the Noise Gate Threshold that will be used when in the manual mode. This represents the level at which the noise gate will activate.

Command Form: **DEVICE PANGT** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Signed Float	2	-100.00 to 0.00 (Null to query in text)	dB

PAPOL – Polarity Switch

This command changes audio signal polarity on a power amplifier channel.

Command Form: **DEVICE PAPOL** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Normal 1 = Reverse 2 = Toggle (Null to query in text)	

PARST – PA Reset

This command resets the power supplies on an individual power amplifier circuits. **There is no query associated with this command.**

Command Form: **DEVICE PARST** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Reserved	Zero	2	Zero	

PASME – PA Sound Mask Enable

This command enables the sound mask signal on a PA Channel

Command Form: **DEVICE PASME** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Voice Mode 1 = Wideband Mode (Null to query in text)	

PASML – PA Sound Mask Level

This command selects/reports the sound mask level on a PA channel.

Command Form: **DEVICE PASML** <Channel> <Group> [Amplitude]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Amplitude	Signed Short	2	-60.00 – 20.00 (Null to query in text)	dB

PASMM – PA Sound Mask Mode

This command selects/reports the sound mask mode on a PA channel.

Command Form: *DEVICE* **PASMM** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 = Voice Mode 1 = Wideband Mode (Null to query in text)	

PASMT – PA Sound Mask Timer

This command selects/reports the timer on sound mask signal on a PA channel.

Command Form: *DEVICE* **PASMT** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J)	
Value	Unsigned Short	2	0 – 1440 (24 hours) (Null to query in text)	Minutes

PATO – PA Thermal Overload

This indicates if a thermal overload condition is occurring on one of the power amplifier channels. **This is Read-Only, and is automatically generated if a overload occurs.**

Command Form: **DEVICE PATO** [Bitmap]

Argument	Type	Size	Values	Units
Bitmap	Hexadecimal Integer	4	<div style="display: flex; justify-content: space-between;"> 31 30 ... 08 07 06 05 04 03 02 01 00 </div> <p> _____ Fan IC Temp. Overload _____ Intake Temp. Overload _____ Outlet Temp. Overload _____ <Bits 03 - 31 unused> </p>	

PBDIAL – Dial a PB Entry by Argument

This command dials a speed dial number by name. **There is no query for this command.**

Command Form: *DEVICE* **PBDIAL** <Channel> <Label>

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Reserved	Unsigned Integer	2	0	
Label	String	16	1 – 16 chars	

PHONEBOOKADD – Adds an Entry to the Phonebook

This command saves an entry in the phonebook. **There is no query for this command.** No two entries can share the same label. An argument error will be returned if an entry already exists. To change an entry, you must first delete it and then add it again. If label is blank, the first 20 characters of the number will be used as the label. The **Number** argument must not be blank. If an entry already exists with the assigned speed dial it will be overwritten. The entries are alphabetized based on Label.

Command Form: *DEVICE* **PHONEBOOKADD** <ID Number Label>

Argument	Type	Size	Values	Units
Speed Dial	Unsigned Integer	4	0 for not assigned to a speed dial 1 – 20	
Number	String	44	1 – 44 chars '0' – '9', '*', '#'	
Label	String	16	1 – 16 chars	

PHONEBOOKCNT – Counts Entries in the Phonebook

This command queries the number of entries in the phonebook. **This command is query only.**

Command Form: **DEVICE PHONEBOOKCNT** <Value>

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 – 20	

PHONEBOOKDEL – Deletes an Entry in the Phonebook

This command deletes an entry in the phonebook. **There is no query for this command.**

Command Form: **DEVICE PHONEBOOKDEL** <Label>

Argument	Type	Size	Values	Units
Label	String	16	1 – 16 chars	

PHONEBOOKREAD – Queries the Phonebook by Index

This command queries an entry in the phonebook. **This command is query only.**

Command Form: **DEVICE PHONEBOOKREAD** <Index> [Speed Number Label]

Argument	Type	Size	Values	Units
Index	Unsigned Integer	2	0 – 19 (Must be less than the Number of Phone Book Entries)	
Speed Dial	Unsigned Integer	2	0 for not assigned to a speed dial 1 – 20 (NULL to query in text)	
Number	String	44	1 – 44 chars '0' – '9', '*', '#'	
Label	String	16	1 – 16 chars	

PP – Phantom Power

This command selects/reports the setting of phantom power.

Command Form: **DEVICE PP** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

PRESET – Preset Execution/Reporting

This command selects/reports the state of a preset.

Command Form: **DEVICE PRESET** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	0 (Binary)/Null (Text) = Query Last Preset Ran See Groups and Channels	
Group	Group	1	13 (S)	
Value	Unsigned Integer	2	0 = Set preset state to off 1 = Set state to on and execute if not already on 2 = Execute and return state to off (Null to query current state in text)	

PRGSTRING – Program String

This command sets/reports a programmed string.

COMMAND FORM: *DEVICE* **PRGSTRING** <ID> [Value]

Argument	Type	Size	Values	Units
ID	Unsigned Integer	4	0 – 7	
Value	String	80	CLEAR = Clear current value 1 – 80 Chars (Null to query in text) Special Characters: \a = alert \b = backspace \f = form feed \n = new line \r = carriage return \t = horizontal tab \v = vertical tab \ = backslash	

PTTTHRESHOLD – Push to Talk Threshold

This command selects/reports the setting of the push to talk threshold for a microphone.

Command Form: *DEVICE* **PTTTHRESHOLD** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Float	2	-100 to 0 (Null to query in text)	dB

PUSHTOTALK – Push to Talk

This command selects/reports the setting of push-to-talk for a microphone.

Command Form: *DEVICE* **PUSHTOTALK** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

RAMP – Ramp Gain Adjustment

This command starts / stops the gain ramp for an input, output or assignable processing block. **There is no query associated with this command.**

Command Form: *DEVICE* **RAMP** <Channel> <Group> <Rate> [Target]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 2, 3, 5, 7, 12, 16, 17 (I, J, O, M, P, L, F, T, R)	
Rate	Signed Integer	1	-50 – 50 If value=0, the ramp will stop. If value< 0, the gain will ramp down. If value>0, the gain will ramp up.	dB / s
Target	Signed Integer	1	-65 – 20 If NULL in text or 0x80 in binary, the ramp will use the channel's maximum and minimum for a target.	dB

REDIAL – Redial the Last Number

This command redials the last number. **There is no query for this command.**

Command Form: **DEVICE REDIAL** <Channel>

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Reserved		2	0	

REFSEL – Reference Select for PA Adaptation & AEC

This command selects/reports which output or expansion bus reference is used for a Mic input as a reference for power amp adaptation mode and acoustic echo cancellation where applicable.

Command Form: **DEVICE REFSEL** <Channel> [Ref. Group Ref. Channel]

Argument	Type	Size	Values	Units
Channel	Channel	1	See 3 (M) in Groups and Channels	
Group	Group	1	3 (M)	
Reference Group	Group	1	2, 8, 20 (A, B, E, H, J, O)	
Reference Channel	Channel	1	See Groups and Channels (Null to query in text)	

REFSET – Reference Channel Set Up

This command selects/reports the output the reference channel tracks.

Command Form: **DEVICE REFSET** <Channel> [Reference Output]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	20 (B)	
Value	Reference Output	2	0 = none See 2 (O) in Groups and Channels (Null to query in text)	

RESET – Reset

Resets the unit. **There is no query for this command.**

Command Form: **DEVICE RESET**

No Arguments

RING – Ring Indication

This command indicates a ringing line. **This command is reportable only. It cannot be queried or set.**

Command Form: **DEVICE RING** <Channel><Value>

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0 = Ring Cycle Ended 1 = Ring Cycle Started	

RINGEREN – Audible Ring Enable

This command sends/reports the use of an audible ring.

Command Form: **DEVICE RINGEREN** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

RINGERLVL – Audible Ring Level

This command selects/reports the audible ring's level.

Command Form: **DEVICE RINGERLVL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Signed Float	2	-12.00 – 12.00 (dB) (Null to query in text)	

RINGERSEL – Audible Ring Melody Selection

This command sends/reports the audible ring melody.

Command Form: **DEVICE RINGERSEL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	1 – 3 (Null to query in text)	

RINGERTEST – Audible Ring Melody Test

This command plays the current audible ringer melody. **This command is executable only. There is no query.**

Command Form: **DEVICE RINGERTEST** <Channel>

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Reserved	Unsigned Integer	2	0	

RINGMOD – Ring Cadence Mode

This command sets the ring cadence to either standard mode or custom mode. The cadence can be set using the RINGON and RINGOFF commands. The country code should be set first using the COUNTRY command.

Command Form: **DEVICE RINGMOD** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	

Value	Unsigned Short	2	0 = Standard 1 = Custom (Null to query in text)
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RINGOFF – Ring Cadence Off Time

This command sets the ring cadence off time. The country code should be set first using the COUNTRY command.

Command Form: *DEVICE RINGOFF* <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Short	2	0 = 80 1 = 128 2 = 256 3 = 384 4 = 512 5 = 640 6 = 768 7 = 896 8 = 1024 (Null to query in text)	ms

RINGON – Ring Cadence On Time

This command sets the ring cadence on time. The country code should be set first using the COUNTRY command.

Command Form: *DEVICE RINGON* <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Short	2	0 = 100 1 = 150 2 = 200 3 = 256 4 = 384 5 = 512 6 = 640 7 = 1024 (Null to query in text)	ms

RXBOOST – Receive Boost

This command selects/reports the receive boost status.

Command Form: *DEVICE RXBOOST* <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0, 3, 6, 9, or 12 (Null to query in text)	dB

RXBSTEN – Receive Boost Enable

This command selects/reports the receive boost status.

Command Form: **DEVICE RXBSTEN** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

SERECHO – Serial Echo

This command selects/reports the serial echo of the RS-232 port.

Command Form: **DEVICE SERECHO** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)	

NOTE: The unit will return the updated state of the last selection in the same form as the command.

SFTYMUTE – Safety Mute

This command selects/reports the state of the safety mute. Safety mute holds all outputs in a muted state. It used for syncing to a site document to avoid feedback or blown speakers until the unit is in a settled state.

Command Form: **DEVICE SFTYMUTE** [Value]

Argument	Type	Size	Values	Units
Value	Channel	4	0 = off 1 = on 2 = toggle (Null to query in text)	

SIGGEN – Signal Generator

This command selects/reports of the signal generator activation.

Command Form: **DEVICE SIGGEN** [Channel Group Type Amplitude Frequency]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels (Null to query in text)	
Group	Group	1	1, 3, 7 (I, M, L)	
Type	Unsigned Integer	2	1 = Pink Noise 2 = White Noise 3 = Tone	
Amplitude	Signed Float	4	-60.00 – 20.00	dB
Frequency	Unsigned Float	4	Type 1 – 2 0 (Null in text) Type 3 20.00 – 20000.00	Hz

SIGGENEN – Signal Generator Enable

This command selects/reports of the signal generator activation.

Command Form: **DEVICE SIGGENEN** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = Off 1 = On 2 = Toggle (Null to query in text)	

SIGGENSWEEP – Signal Generator Sweep

This command starts the signal generator with a tone and does a sweep. If **Repeat** is 0, the signal generator will turn off after the sweep. If **Repeat** is 1, the signal generator will turn off after signal generator timeout. To stop the sweep, send a SIGGENEN command with a 0. During the sweep, the box will send out updated SIGGEN commands.

Command Form:

DEVICE SIGGENSWEEP <Channel> <Group> <Amplitude> <Start Frequency> <End Frequency>
<Increment Frequency> <Rate> <Repeat>

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	1, 3, 7 (I, M, L)	
Amplitude	Signed Float	2	-60.00 – 20.00	dB
Start Frequency	Unsigned Float	4	20.00 – 20000.00	Hz
End Frequency	Unsigned Float	4	20.00 – 20000.00 (must be greater than the start)	Hz
Increment Frequency	Unsigned Float	4	1.00 – 20000.00	Hz
Rate	Unsigned Integer	2	10 – 2000 ms	Hz
Repeat	Unsigned Integer	2	0 = repeat off 1 = repeat on	

SIGTOUT – Signal Generator Time Out

Sets the signal generator time out for the unit.

Command Form: *DEVICE SIGTOUT* [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = Disable 1 – 30 (Null to query in text)	Min

SLVL – Speech Level Control

This command selects/reports the setting of Speech Level Control.

Command Form: *DEVICE SLVL* <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	3 (M)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

SMTPSRV – SMTP Mail Server Address

This command selects/reports the IP address of the SMTP Mail server, and the Email Address the unit's SMTP client sends messages to.

Command Form: *DEVICE SMTPSRV* [Value Address]

Argument	Type	Size	Values	Units
Value	IP Address	4	(Null to query in text) (0.0.0.0 Clears IP and String)	
Address	String	40	1 – 40 characters (Null to query in text)	

SNMPMNGRIP – SNMP Manager Host IP Address

This command selects/reports the IP address of the SNMP Manager.

Command Form: **DEVICE SNMPMNGRIP** [Value]

Argument	Type	Size	Values	Units
Value	IP Address	4	IP Address of SNMP Manager to send Traps to (Null to query in text)	

SNMPMNGRPORT – SNMP Manager Notification Port

This command selects/reports the SNMP Trap port for SNMP Manager.

Command Form: **DEVICE SNMPMNGRPORT** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	1-255 (Null to query in text)	

SNMPREADCOMM – SNMP Read Community String

This command selects/reports the SNMP read community string.

Command Form: **DEVICE SNMPREADCOMM** [Value]

Argument	Type	Size	Values	Units
Value	String	30	Read Community validation string (GET data) (Null to query in text: defaults to "public")	

SNMPWRITECOMM – SNMP Write Community String

This command selects/reports the SNMP Write Community String.

Command Form: **DEVICE SNMPWRITECOMM** [Value]

Argument	Type	Size	Values	Units
Value	String	30	Write Community validation string (SET data) (Null to query in text: Default = "private")	

SPEEDDIAL – Speed Dial a Number

This command dials a speed dial number.

Command Form: **DEVICE SPEEDDIAL** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	1 – 20 (Null to query in text)	

STRING – String Execution

This command sends the specified string out the serial port.

Command Form: **DEVICE STRING** [ID]

Argument	Type	Size	Values	Units
ID	Unsigned Integer	4	0 – 7 (Null to query last string in text)	

Initiates the system checks. **There is no query for this command.**

COMMAND FORM: *DEVICE* **SYSCHECKS** <System Check>

SYSRESULT – System Check Result

Argument	Type	Size	Values
System Check	Hexadecimal Integer	4	<div style="display: flex; justify-content: space-between;"> 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 00 </div> <p>Network Telephone Mic 1 Mic 2 Mic 3 Mic 4 Mic 5 Mic 6 Mic 7 Mic 8 Power Amp Temp Check Power Amp Fault Check SIP Proxy Registration Status Packet Loss Statistics All other bits reserved</p>
Status	Unsigned Integer	2	0 = Fail 1 = Pass 2 = NULL <Not Tested or Test Disabled in SYSCONFIG>

Argument	Type	Size	Values
Message	String	40	<p>For the telephone on hook: the message will report the line voltage, the line current, other results, and if dial tone is detected.</p> <p>For the telephone off hook: the message will report the line current, other results, and if dial tone is detected.</p> <p>The bit mask for the other results is</p> <p>x x x x x x x x</p> <p> --> set if switched from CTR21 to FCC because of low current</p> <p> --> set if used DIAL bit while dialing</p> <p> --> set if switch from Low Voltage to Japan because of current</p> <p> --> set if switch from Low Voltage to FCC because of current</p> <p> --> DAA OVL status</p> <p> --> DAA DOD status</p> <p> --> DAA OPD status</p> <p> --> Not used</p> <p>For the network check: the box will report if no IP address is set. If it is set, the box will ping the gateway. The message will say the ping failed if it is not returned in 5 s. Otherwise, the message will report how many seconds it took to return the ping.</p>

TAMODE – Telco Adapt Mode

This command selects/reports the Telco adapt mode.

Command Form: **DEVICE TAMODE** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0 = Auto 1 = Burst (Null to query in text)	

TE – Telco Enable

This command selects/reports the hook status.

Command Form: **DEVICE TE** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (R)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

TELCOLVLCtrl – Telco RX Level Control Enable / Disable

This command selects/reports the setting of Telco Rx level control.

Command Form: **DEVICE TELCOLVLCtrl** <Channel> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	17 (T)	
Value	Unsigned Integer	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

TIMELOCALE – Time Locale Settings

This command sets or reports the time locale settings.

Command Form: **DEVICE TIMELOCALE** [DaylightSavings TimeZone TimeZoneName]

Argument	Type	Size	Values	Units
Daylight Savings	Unsigned Integer	4	0 = Do not use Daylight Savings 1 = Use Daylight Savings (NULL to Query in Text)	
Time Zone	Unsigned Integer	4	The number of seconds from UDT. (-86400 – 86400)	
Time Zone Argument	String	32	Description of time zone	

TOUT – Time Out Select

This command selects/reports the inactivity time out before returning to the unit title screen on the front panel.

Command Form: **DEVICE TOUT** [Value]

Argument	Type	Size	Values	Units
Value	Unsigned Integer	4	0 = No Time Out 1 – 15 (Null to query in text)	Min

UID – Unit ID

This command reports the unit id. **This command is read only.**

Command Form: **DEVICE UID** [Value]

Argument	Type	Size	Values	Units
Value	Hexadecimal	4	(Sent with a Null, value returned in text)	

VER - Version

This command reports the version of the unit. **This command is read only.**

Command Form: **DEVICE VER** [Value]

Argument	Type	Size	Values	Units
Value	String	8	Version of format MM.mm.rr (Sent with a Null in text, value returned)	

XCGROUP – Compressor Group

This command sets the compressor group for synchronized operation of the compressor. This command can be used to replace the CGROUP command for the P group.

Command Form: **DEVICE XCGROUP** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	5, 23 (P, J)	
Value	Unsigned Short	2	0 = None 1 = Group 1 2 = Group 2 3 = Group 3 4 = Group 4 (Null to query in text)	

XCOMPRESS – Compressor Adjust

This command controls/reports the signal compression setting on a Channel. This command can be used to replace the COMPRESS command for the P group.

Command Form: **DEVICE XCOMPRESS** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J, P)	
Value	Unsigned Short	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

XCOMPSEL – Compressor Enable

This command enables signal compression on a Channel. This command can be used to replace the COMPSEL command for the P group.

Command Form: **DEVICE XCOMPSEL** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	23 (J, P)	
Value	Unsigned Short	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

XDELAY – Audio Delay

This command controls/reports signal delay on a Channel. This command can be used to replace the DELAY command for the P group.

Command Form: **DEVICE XDELAY** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	5, 23 (P, J)	
Value	Unsigned Short	2	0.0 – 250.00 (Null to query in text)	ms

XDELAYSEL – Audio Delay Enable

This command enables signal delay on a Channel. This command can be used to replace the DELAYSEL command for the P group.

Command Form: **DEVICE XDELAYSEL** <Channel> <Group> [Value]

Argument	Type	Size	Values	Units
Channel	Channel	1	See Groups and Channels	
Group	Group	1	5, 23 (P, J)	
Value	Unsigned Short	2	0 = Off 1 = On 2 = Toggle (Null to query in text)	

SERIAL COMMAND SUPPORT TABLE

The following table shows serial command support by Converge/Converge Pro device type. Note that telco-related commands only work on models that have telephone interfaces (Converge Pro 880TA, 880T, 840T, TH20); and AEC and NC-related commands do not work with Converge SR 1212 and SR 1212A.

Command Name	Converge Pro 880	Converge Pro 880T	Converge Pro 840T	Converge Pro 8i	Converge Pro TH20	Converge SR 1212	Converge 880TA	Converge SR 1212A
AA		X	X		X		X	
AAMB	X	X	X	X		X	X	X
AARINGS		X	X		X		X	
ACONN		X	X		X		X	
ACONNLVL		X	X		X		X	
AD		X	X		X		X	
ADCLIP	X	X	X	X	X	X	X	X
ADPRESENT	X	X	X	X	X	X	X	X
AEC	X	X	X	X			X	
AGC	X	X	X	X	X	X	X	X
AGCSET	X	X	X	X	X	X	X	X
AMBLVL	X	X	X	X		X	X	X
AMXDUET	X	X	X	X	X	X	X	X
AV	X	X	X	X	X	X	X	X
AVG							X	X
AVR							X	X
AVRT							X	X
AVT							X	X
BAUD	X	X	X	X	X	X	X	X
CALLDUR		X	X		X		X	
CALLERID		X	X		X		X	
CGROUP	X	X	X	X		X	X	X
CHAIRO	X	X	X	X		X	X	X
CLEARFFECT		X	X		X		X	
CLOCK	X	X	X	X	X	X	X	X
COMPDLY							X	X
COMPDLYEN							X	X
COMPRESS	X	X	X	X		X	X	X
COMPSEL	X	X	X	X		X	X	X
COUNTRY		X	X		X		X	X
CTRLMASTER	X	X	X	X	X	X	X	X
DECAY	X	X	X	X		X	X	X
DEFAULT	X	X	X	X	X	X	X	X
DELAY	X	X	X	X		X	X	X

Command Name	Converge Pro 880	Converge Pro 880T	Converge Pro 840T	Converge Pro 8i	Converge Pro TH20	Converge SR 1212	Converge 880TA	Converge SR 1212A
DELAYSEL	X	X	X	X		X	X	X
DEVICENAME	X	X	X	X	X	X	X	X
DEVICESUBTYPE	X	X	X	X	X	X	X	X
DEVICETYPE	X	X	X	X	X	X	X	X
DFLTM	X	X	X	X	X	X		
DIAG							X	X
DIAL		X	X		X		X	X
DID	X	X	X	X	X	X	X	X
DTMFLVL		X	X		X		X	
DTONELVL		X	X		X		X	
DUPDATE	X	X	X	X	X	X	X	X
DVER	X	X	X	X	X	X	X	X
ENETADDR	X	X	X	X	X	X	X	X
ENETDHCP	X	X	X	X	X	X	X	X
ENETDNS	X	X	X	X	X	X	X	X
ENETDNSA	X	X	X	X	X	X	X	X
ENETDNSA2	X	X	X	X	X	X	X	X
ENETDOMAIN	X	X	X	X	X	X	X	X
ENETGATE	X	X	X	X	X	X	X	X
ENETSUBN	X	X	X	X	X	X	X	X
EREF	X	X	X		X	X	X	X
EVENT	X	X	X	X	X	X	X	X
FE							X	X
FEB							X	X
FEDR							X	X
FEF							X	X
FEG							X	X
FEGL							X	X
FELD							X	X
FEM							X	X
FEN							X	X
FER							X	X
FERNG							X	X
FES							X	X
FESC							X	X
FILTER	X	X	X		X	X	X	X
FILTSEL	X	X	X	X	X	X	X	X
FLOW	X	X	X	X	X	X	X	X
FMP	X	X	X	X		X	X	X
GAIN	X	X	X	X	X	X	X	X
GATE	X	X	X	X		X	X	X
GHOLD	X	X	X	X		X	X	X
GMODE	X	X	X	X		X	X	X
GOVER	X	X	X	X		X	X	X
GPIOSTATUS	X	X	X	X	X	X	X	X
GRATIO	X	X	X	X		X	X	X
GREPORT	X	X	X	X	X	X	X	X

Command Name	Converge Pro 880	Converge Pro 880T	Converge Pro 840T	Converge Pro 8i	Converge Pro TH20	Converge SR 1212	Converge 880TA	Converge SR 1212A
GRPSEL	X	X	X	X		X	X	X
HOOK		X	X		X		X	
HOOKD		X	X		X		X	
LABEL	X	X	X	X	X	X	X	X
LCDCONTRAST	X	X	X	X	X	X	X	X
LMO	X	X	X	X		X	X	X
LOCALNUM		X	X		X		X	
LOCBLDG	X	X	X	X	X	X	X	X
LOCCITY	X	X	X	X	X	X	X	X
LOCCNTRY	X	X	X	X	X	X	X	X
LOCCOMP	X	X	X	X	X	X	X	X
LOCREGION	X	X	X	X	X	X	X	X
LOCROOM	X	X	X	X	X	X	X	X
LOCSITENAME	X	X	X	X	X	X	X	X
LOCSTATE	X	X	X	X	X	X	X	X
LOGMASK	X	X	X	X	X	X	X	X
LVL	X	X	X	X	X	X	X	X
LVLREPORT	X	X	X	X	X	X	X	X
LVLREPORTEN	X	X	X	X	X	X	X	X
MACRO	X	X	X	X	X	X	X	X
MANUFACTURER	X	X	X	X	X	X	X	X
MAX	X	X	X	X	X	X	X	X
MC							X	X
MCGAIN							X	X
MCMINMAX							X	X
MCMUTE							X	X
MCRAMP							X	X
MIN	X	X	X	X	X	X	X	X
MINMAX	X	X	X	X	X	X	X	X
MLINE	X	X	X	X		X	X	X
MMAX	X	X	X	X		X	X	X
MODEL	X	X	X	X	X	X	X	X
MTRX	X	X	X	X	X	X	X	X
MTRXCLEAR	X	X	X	X	X	X	X	X
MTRXLVL	X	X	X	X	X	X	X	X
MUTE	X	X	X	X	X	X	X	X
NAME	X	X	X	X	X	X	X	X
NCD	X	X	X	X	X		X	
NCSEL	X	X	X	X	X		X	
NLP	X	X	X	X			X	X
NOM	X	X	X		X	X	X	X
NTPSRV	X	X	X	X	X	X	X	X
NULL		X	X		X		X	X
OFFA	X	X	X	X		X	X	X
PAA	X	X	X	X		X	X	X
PACEN							X	X

Command Name	Converge Pro 880	Converge Pro 880T	Converge Pro 840T	Converge Pro 8i	Converge Pro TH20	Converge SR 1212	Converge 880TA	Converge SR 1212A
PAENERGY							X	X
PAEQEN							X	X
PAEQRST							X	X
PAEQSET							X	X
PAFLT							X	X
PAIMPED							X	X
PALEN							X	X
PALT							X	X
PANGAT							X	X
PANGEN							X	X
PANGF							X	X
PANGM							X	X
PANGT							X	X
PAPOL							X	X
PARST							X	X
PASME							X	X
PASML							X	X
PASSM							X	X
PASMT							X	X
PATO							X	X
PBDIAL		X	X		X		X	
PHONEBOOKADD		X	X		X		X	
PHONEBOOKCNT		X	X		X		X	
PHONEBOOKDEL		X	X		X		X	
PHONEBOOKREAD		X	X		X		X	
PP	X	X	X	X		X	X	X
PRESET	X	X	X	X	X	X	X	X
PRGSTRING	X	X	X	X	X	X	X	X
PTTTHRESHOLD	X	X	X	X			X	X
PUSHTOTALK	X	X	X	X			X	X
RAMP	X	X	X	X	X	X	X	X
REDIAL		X	X		X		X	X
REFSEL	X	X	X	X		X	X	X
REFSET	X	X	X	X		X	X	X
RESET	X	X	X	X	X	X	X	X
RING		X	X		X		X	
RINGEREN		X	X		X		X	
RINGERLVL		X	X		X		X	
RINGERSEL		X	X		X		X	
RINGertest		X	X		X		X	
RINGMOD		X	X		X		X	
RINGOFF		X	X		X		X	
RINGON		X	X		X		X	
RXBOOST		X	X		X		X	
RXBSTEN		X	X		X		X	
SEREOCHO	X	X	X	X	X	X	X	X
SFTYMUTE	X	X	X	X	X	X	X	X

Command Name	Converge Pro 880	Converge Pro 880T	Converge Pro 840T	Converge Pro 8i	Converge Pro TH20	Converge SR 1212	Converge 880TA	Converge SR 1212A
SIGGEN	X	X	X	X	X	X	X	X
SIGGENEN	X	X	X	X	X	X	X	X
SIGGENSWEEP	X	X	X	X	X	X	X	X
SIGTOUT	X	X	X	X	X	X	X	X
SLVL	X	X	X	X		X	X	X
SMTPSRV	X	X	X	X	X	X	X	X
SNMPMNGRIP	X	X	X	X	X	X	X	X
SNMPMNGRPORT	X	X	X	X	X	X	X	X
SNMPREADCOMM	X	X	X	X	X	X	X	X
SNMPWRITECOMM	X	X	X	X	X	X	X	X
SPEEDDIAL		X	X		X		X	
STRING	X	X	X	X	X	X	X	X
SYSCHECKS	X	X	X	X	X	X	X	X
SYSRESULT	X	X	X	X	X	X	X	X
TAMODE		X	X		X		X	
TE		X	X		X		X	
TELCOLVLCtrl		X	X		X		X	
TIMELOCALE	X	X	X	X	X	X	X	X
TOUT	X	X	X	X	X	X	X	X
UID	X	X	X	X	X	X	X	X
VER	X	X	X	X	X	X	X	X
XCGROUP	X	X		X	X	X	X	X
XCOMPRESS	X	X		X	X	X	X	X
XCOMPSEL	X	X		X	X	X	X	X
XDELAY	X	X		X	X	X	X	X
XDELAYSEL	X	X		X	X	X	X	X