

This document provides additional assistance with wiring your Extron IP Link Pro Control Processor to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific IP Link Pro Control Processor or the documentation supplied by the manufacturer of the controlled device.

For more information on using Global Scriptor Modules, refer to the "[Guide to Using Scriptor Modules](#)" document.

Device Specifications

Device Type: Scaler
Manufacturer: Extron
Firmware Version: N/A
Model(s): IN1808, IN1808 IPCP SA, IN1808 IPCP MA 70, IN1806

Tested on the Following Software and Firmware Versions

IP Link Pro Control Processor Firmware	Global Scriptor Version
3.12.0000-b001	2.8.0

Version History

Module Version	Date	Notes
1_1_6_0	1/5/2021	Fixed HDCP Input Status and HDCP Output Status.
1_1_5_0	5/8/2020	Added Group Bass and Group Treble commands. Changed driver to use SSH protocol. Added CEC commands.
1_1_0_0	7/24/2019	Initial Version

Module Notes

- Unidirectional variable must be set to 'True' if status is not required. Default value is 'False'.
Example: `InterfaceName.Unidirectional = 'True'`
- connectionCounter variable must be set to the number of queries that will be sent to the device before displaying 'Disconnected' if no response is received. Default value is 15.
Example: `InterfaceName.connectionCounter = 5`
- If login credentials are required, devicePassword and deviceUsername must be set accordingly. deviceUsername default value is admin respectively.
Example: `InterfaceName.deviceUsername = 'extron'`

Supported Classes and Examples

SerialClass

```
InterfaceName = ModuleName.SerialClass(ProcessorName, 'COM1', Model='IN1808')
```

SerialOverEthernetClass

```
InterfaceName = ModuleName.SerialOverEthernetClass('192.168.254.254', 2001, Model='IN1808')
```

SSHClass

#Password Required

```
InterfaceName = ModuleName.SSHClass('192.168.254.254', 22023, Credentials=('admin', ''),  
Model='IN1808')
```

#No Password Required

```
InterfaceName = ModuleName.SSHClass('192.168.254.254', 22023, Credentials=('admin', ''),  
Model='IN1808')
```

Control Commands

Format with Qualifier:

```
InterfaceName.Set(Command, Value, {'Qualifier Key': 'Qualifier Value'})
```

Format without Qualifier:

```
InterfaceName.Set(Command, Value)
```

Command AspectRatio	Value 'Fill'	Value 'Follow'	
Qualifier Key 'Input'	Qualifier Value '1' – '6' ²	Qualifier Value '1' – '8' ³	
# AspectRatio example InterfaceName.Set('AspectRatio', 'Fill', {'Input': '1'})			
Command AudioFormat	Value 'Analog Aux' 'LPCM-2Ch Auto AUX'	Value 'LPCM-2Ch' 'Multi-Ch Auto AUX'	Value 'Multi-Ch' None
Qualifier Key 'Input'	Qualifier Value '1' – '6' ²	Qualifier Value '1' – '8' ³	
# AudioFormat example InterfaceName.Set('AudioFormat', 'Analog Aux', {'Input': '1'})			
Command AutoImage	Value 'Execute'	Value 'Execute and Fill'	Value 'Execute and Follow'
# AutoImage example InterfaceName.Set('AutoImage', 'Execute')			
Command AutoSwitchMode	Value 'User Defined Priority'	Value 'Input Memory Priority'	Value 'Off'
# AutoSwitchMode example InterfaceName.Set('AutoSwitchMode', 'User Defined Priority')			
Command CECAudioMute ⁶	Value None		
Qualifier Key 'Output'	Qualifier Value '1A'	Qualifier Value '1B'	Qualifier Value 'Loop Out'
# CECAudioMute example InterfaceName.Set('CECAudioMute', None, {'Output': '1A'})			
Command CECPower ⁶	Value 'On'	Value 'Off'	
Qualifier Key 'Output'	Qualifier Value '1A'	Qualifier Value '1B'	Qualifier Value 'Loop Out'
# CECPower example InterfaceName.Set('CECPower', 'On', {'Output': '1A'})			
Command CECShowAsActiveSource ⁶	Value None		
Qualifier Key 'Output'	Qualifier Value '1A'	Qualifier Value '1B'	Qualifier Value 'Loop Out'
# CECShowAsActiveSource example InterfaceName.Set('CECShowAsActiveSource', None, {'Output': '1A'})			
Command CECVolume ⁶	Value 'Up'	Value 'Down'	
Qualifier Key 'Output'	Qualifier Value '1A'	Qualifier Value '1B'	Qualifier Value 'Loop Out'
# CECVolume example InterfaceName.Set('CECVolume', 'Up', {'Output': '1A'})			

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Command	Value		
EmbeddedInputGain	-18 to 24 in steps of 0.1		
Qualifier Key	Qualifier Value	Qualifier Value	
'Input'	'1' – '6' ²	'1' – '8' ³	
# EmbeddedInputGain example InterfaceName.Set('EmbeddedInputGain', 24, {'Input': '1'})			
Command	Value		Value
EmbeddedInputMute	'On'		'Off'
Qualifier Key	Qualifier Value	Qualifier Value	
'Input'	'1' – '6' ²	'1' – '8' ³	
# EmbeddedInputMute example InterfaceName.Set('EmbeddedInputMute', 'On', {'Input': '1'})			
Command	Value	Value	Value
ExecutiveMode ¹	'Off'	'Mode 1'	'Mode 2'
	'Mode 3'	'Mode 4'	
# ExecutiveMode example InterfaceName.Set('ExecutiveMode', 'Off')			
Command	Value		Value
Freeze	'On'		'Off'
# Freeze example InterfaceName.Set('Freeze', 'On')			
Command	Value	Value	Value
GlobalVideoMute	'On'	'On with Sync'	'Off'
# GlobalVideoMute example InterfaceName.Set('GlobalVideoMute', 'On')			
Command	Value		
GroupBass	-24 to 24 in steps of 0.1		
# GroupBass example InterfaceName.Set('GroupBass', 24)			
Command	Value		Value
GroupLineMute	'On'		'Off'
# GroupLineMute example InterfaceName.Set('GroupLineMute', 'On')			
Command	Value		
GroupLineVolume	-100 to 12 in steps of 0.1		
# GroupLineVolume example InterfaceName.Set('GroupLineVolume', 12)			
Command	Value		Value
GroupMicMute	'On'		'Off'
# GroupMicMute example InterfaceName.Set('GroupMicMute', 'On')			
Command	Value		
GroupMicVolume	-100 to 12 in steps of 0.1		
# GroupMicVolume example InterfaceName.Set('GroupMicVolume', 12)			
Command	Value		Value
GroupOutputMute	'On'		'Off'
# GroupOutputMute example InterfaceName.Set('GroupOutputMute', 'On')			
Command	Value		
GroupOutputVolume	-100 to 0 in steps of 0.1		
# GroupOutputVolume example InterfaceName.Set('GroupOutputVolume', 0)			
Command	Value		Value

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GroupProgramMute	'On'		'Off'
# GroupProgramMute example InterfaceName.Set('GroupProgramMute', 'On')			
Command	Value		
GroupProgramVolume	-100 to 12 in steps of 0.1		
# GroupProgramVolume example InterfaceName.Set('GroupProgramVolume', 12)			
Command	Value		
GroupTreble	-24 to 24 in steps of 0.1		
# GroupTreble example InterfaceName.Set('GroupTreble', 24)			
Command	Value	Value	
HDCPInputAuthorization	'On'	'Off'	
Qualifier Key	Qualifier Value	Qualifier Value	
'Input'	'2' – '6' ²	'2' – '8' ³	
# HDCPInputAuthorization example InterfaceName.Set('HDCPInputAuthorization', 'On', {'Input': '2'})			
Command	Value	Value	Value
Input	'Aux' ⁵	'1' – '6' ²	'1' – '8' ³
Qualifier Key	Qualifier Value	Qualifier Value	Qualifier Value
'Type'	'Audio'	'Video'	'Audio/Video'
# Input example InterfaceName.Set('Input', '0', {'Type': 'Audio'})			
Command	Value		
InputPresetRecall	'1' – '128'		
# InputPresetRecall example InterfaceName.Set('InputPresetRecall', '1')			
Command	Value		
InputPresetSave	'1' – '128'		
# InputPresetSave example InterfaceName.Set('InputPresetSave', '1')			
Command	Value		
LineInputGain	-18 to 24 in steps of 0.1		
Qualifier Key	Qualifier Value	Qualifier Value	Qualifier Value
'Input'	'Line In 3'	'Line In 4'	'Aux'
	'File Player'		
# LineInputGain example InterfaceName.Set('LineInputGain', 24, {'Input': 'Line In 3'})			
Command	Value	Value	
LineInputMute	'On'	'Off'	
Qualifier Key	Qualifier Value	Qualifier Value	Qualifier Value
'Input'	'Line In 3'	'Line In 4'	'Aux'
	'File Player'		
# LineInputMute example InterfaceName.Set('LineInputMute', 'On', {'Input': 'Line In 3'})			
Command	Value	Value	
Logo	'1' – '16'	'Off'	
# Logo example InterfaceName.Set('Logo', '1')			
Command	Value	Value	
LoopOut	'1' – '6' ²	'1' – '8' ³	
# LoopOut example InterfaceName.Set('LoopOut', '1')			
Command	Value		

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MicLineInputGain	-18 to 80 in steps of 0.1		
Qualifier Key 'Input'	Qualifier Value '1' – '2'		
# MicLineInputGain example InterfaceName.Set('MicLineInputGain', 80, {'Input': '1'})			
Command MicLineInputMute	Value 'On'	Value 'Off'	
Qualifier Key 'Input'	Qualifier Value '1' – '2'		
# MicLineInputMute example InterfaceName.Set('MicLineInputMute', 'On', {'Input': '1'})			
Command OutputAttenuation	Value -100 to 0 in steps of 0.1		
Qualifier Key 'Output'	Qualifier Value 'HDMI Out'	Qualifier Value 'DTP2/XTP/HDBT Out'	Qualifier Value 'DTP Analog Out'
	'Line Out 1'	'Line Out 2'	'Line Out 3'
	'Line Out 4'	'Amp Out' ⁴	
# OutputAttenuation example InterfaceName.Set('OutputAttenuation', 0, {'Output': 'HDMI Out'})			
Command OutputFormat	Value 'Auto'	Value 'DVI RGB 444'	Value 'HDMI RGB 444 Full'
	'HDMI RGB 444 Limited'	'HDMI YUV 444 Limited'	'HDMI YUV 422 Limited'
	'HDMI YUV 420 Limited'		
Qualifier Key 'Output'	Qualifier Value '1A'	Qualifier Value '1B'	Qualifier Value 'Loop Out'
# OutputFormat example InterfaceName.Set('OutputFormat', 'Auto', {'Output': '1A'})			
Command OutputMute	Value 'On'	Value 'Off'	
Qualifier Key 'Output'	Qualifier Value 'HDMI Out'	Qualifier Value 'DTP2/XTP/HDBT Out'	Qualifier Value 'DTP Analog Out'
	'Line Out 1'	'Line Out 2'	'Line Out 3'
	'Line Out 4'	'Amp Out' ⁴	
# OutputMute example InterfaceName.Set('OutputMute', 'On', {'Output': 'HDMI Out'})			
Command OutputResolution	Value '640x480'	Value '800x600'	Value '1024x768'
	'1280x768'	'1280x800'	'1280x1024'
	'1360x768'	'1366x768'	'1440x900'
	'1400x1050'	'1600x900'	'1680x1050'
	'1600x1200'	'1920x1200'	'480p (59.94Hz)'
	'480p (60Hz)'	'576p'	'720p (25Hz)'
	'720p (29.97Hz)'	'720p (30Hz)'	'720p (50Hz)'
	'720p (59.94Hz)'	'720p (60Hz)'	'1080i (50Hz)'
	'1080i (59.94Hz)'	'1080i (60Hz)'	'1080p (23.98Hz)'
	'1080p (24Hz)'	'1080p (25Hz)'	'1080p (29.97Hz)'
	'1080p (30Hz)'	'1080p (50Hz)'	'1080p (59.94Hz)'
	'1080p (60Hz)'	'2048x1080 (2K) (23.98Hz)'	'2048x1080 (2K) (24Hz)'
	'2048x1080 (2K) (25Hz)'	'2048x1080 (2K) (29.97Hz)'	'2048x1080 (2K) (30Hz)'
	'2048x1080 (2K) (50Hz)'	'2048x1080 (2K)	'2048x1080 (2K) (60Hz)'

	(59.94Hz)'		
	'2048x1200 (60Hz)'	'2048x1536 (60Hz)'	'2560x1080 (60Hz)'
	'2560x1440 (60Hz)'	'2560x1600 (60Hz)'	'3840x2160 (23.98Hz)'
	'3840x2160 (24Hz)'	'3840x2160 (25Hz)'	'3840x2160 (29.97Hz)'
	'3840x2160 (30Hz)'	'3840x2160 (50Hz)'	'3840x2160 (59.94Hz)'
	'3840x2160 (60Hz)'	'4096x2160 (23.98Hz)'	'4096x2160 (24Hz)'
	'4096x2160 (25Hz)'	'4096x2160 (29.97Hz)'	'4096x2160 (30Hz)'
	'4096x2160 (50Hz)'	'4096x2160 (59.94Hz)'	'4096x2160 (60Hz)'
	'Custom 1'	'Custom 2'	'Custom 3'
	'Custom 4'	'Custom 5'	'Custom 6'
	'Custom 7'	'Custom 8'	'Custom 9'
	'Custom 10'		
# OutputResolution example InterfaceName.Set('OutputResolution', '640x480')			
Command	Value	Value	Value
PowerSaveMode	'Lowest'	'Off'	'Low'
# PowerSaveMode example InterfaceName.Set('PowerSaveMode', 'Lowest')			
Command	Value	Value	Value
TestPattern	'Crop'	'Alternating Pixels'	'Crosshatch'
	'Color Bars'	'Grayscale'	'Audio Test'
	'Off'		
# TestPattern example InterfaceName.Set('TestPattern', 'Crop')			
Command	Value	Value	Value
VideoMute	'On'	'Off'	'On with Sync'
Qualifier Key	Qualifier Value	Qualifier Value	Qualifier Value
'Output'	'1A'	'1B'	'Loop Out'
# VideoMute example InterfaceName.Set('VideoMute', 'On', {'Output': '1A'})			

¹ Off: disabled, front panel controls fully accessible (default)

Mode 1: Complete front panel lockout

Mode 2: Allows Input switching, logos, and volume control only

Mode 3: Allows Input switching and logos only

Mode 4: Volume control only

² Only supported for IN1806 models

³ Only supported for IN1808 models

⁴ Only supported for MA or SA models

⁵ Only supported when Type command parameter is Audio

⁶ For these commands to work, CEC needs to be enabled on the desired output to control. The driver will enable this setting once for the user on initialization or disconnect. Any changes to this setting may cause these commands to no longer function. It is not recommended to make any changes to this setting while the driver is running. To re-enable this setting, this can be done from the PCS software under "General Settings" → "CEC Communications".

Status Available

For all commands except for Temperature, and TestPattern, Update should be called only once since the command's status will be updated automatically as the device's status changes. ConnectionStatus does not support the Update function and is triggered by the device providing a successful response to other Update function calls.

Format with Qualifier:

```
InterfaceName.Update(Command, {'Qualifier Key': 'Qualifier Value'})  
Value = InterfaceName.ReadStatus(Command, {'Qualifier Key': 'Qualifier Value'})  
InterfaceName.SubscribeStatus(Command, {'Qualifier Key': 'Qualifier Value'},  
FeedbackHandler)
```

FeedbackHandler will be called only when the specified qualifier gets a new status.

Format without Qualifier:

```
InterfaceName.Update(Command)  
Value = InterfaceName.ReadStatus(Command)  
InterfaceName.SubscribeStatus(Command, None, FeedbackHandler)  
FeedbackHandler will be called when any qualifier gets a new status.
```

Command	Value	Value	Value
AspectRatio	'Fill'	'Follow'	
Qualifier Key	Qualifier Value	Qualifier Value	
'Input'	'1' – '6' ²	'1' – '8' ³	
# AspectRatio example InterfaceName.Update('AspectRatio', {'Input': '1'}) Value = InterfaceName.ReadStatus('AspectRatio', {'Input': '1'}) InterfaceName.SubscribeStatus('AspectRatio', None, FeedbackHandler)			
Command	Value	Value	Value
AudioFormat	'Analog Aux' 'LPCM-2Ch Auto AUX'	'LPCM-2Ch' 'Multi-Ch Auto AUX'	'Multi-Ch' 'None'
Qualifier Key	Qualifier Value	Qualifier Value	
'Input'	'1' – '6' ²	'1' – '8' ³	
# AudioFormat example InterfaceName.Update('AudioFormat', {'Input': '1'}) Value = InterfaceName.ReadStatus('AudioFormat', {'Input': '1'}) InterfaceName.SubscribeStatus('AudioFormat', None, FeedbackHandler)			
Command	Value	Value	Value
AutoSwitchMode	'User Defined Priority'	'Input Memory Priority'	'Off'
# AutoSwitchMode example InterfaceName.Update('AutoSwitchMode') Value = InterfaceName.ReadStatus('AutoSwitchMode') InterfaceName.SubscribeStatus('AutoSwitchMode', None, FeedbackHandler)			
Command	Value	Value	
ConnectionStatus	'Connected'	'Disconnected'	
# ConnectionStatus example Value = InterfaceName.ReadStatus('ConnectionStatus') InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)			
Command	Value		
EmbeddedInputGain	-18 to 24 in steps of 0.1		
Qualifier Key	Qualifier Value	Qualifier Value	
'Input'	'1' – '6' ²	'1' – '8' ³	
# EmbeddedInputGain example InterfaceName.Update('EmbeddedInputGain', {'Input': '1'}) Value = InterfaceName.ReadStatus('EmbeddedInputGain', {'Input': '1'}) InterfaceName.SubscribeStatus('EmbeddedInputGain', None, FeedbackHandler)			

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Command	Value	Value	
EmbeddedInputMute	'On'	'Off'	
Qualifier Key	Qualifier Value	Qualifier Value	
'Input'	'1' – '6' ²	'1' – '8' ³	
# EmbeddedInputMute example InterfaceName.Update('EmbeddedInputMute', {'Input': '1'}) Value = InterfaceName.ReadStatus('EmbeddedInputMute', {'Input': '1'}) InterfaceName.SubscribeStatus('EmbeddedInputMute', None, FeedbackHandler)			
Command	Value	Value	Value
ExecutiveMode ¹	'Off'	'Mode 1'	'Mode 2'
	'Mode 3'	'Mode 4'	
# ExecutiveMode example InterfaceName.Update('ExecutiveMode') Value = InterfaceName.ReadStatus('ExecutiveMode') InterfaceName.SubscribeStatus('ExecutiveMode', None, FeedbackHandler)			
Command	Value	Value	
Freeze	'On'	'Off'	
# Freeze example InterfaceName.Update('Freeze') Value = InterfaceName.ReadStatus('Freeze') InterfaceName.SubscribeStatus('Freeze', None, FeedbackHandler)			
Command	Value	Value	Value
GlobalVideoMute	'On'	'On with Sync'	'Off'
# GlobalVideoMute example InterfaceName.Update('GlobalVideoMute') Value = InterfaceName.ReadStatus('GlobalVideoMute') InterfaceName.SubscribeStatus('GlobalVideoMute', None, FeedbackHandler)			
Command	Value		
GroupBass	-24 to 24 in steps of 0.1		
# GroupBass example InterfaceName.Update('GroupBass') Value = InterfaceName.ReadStatus('GroupBass') InterfaceName.SubscribeStatus('GroupBass', None, FeedbackHandler)			
Command	Value	Value	
GroupLineMute	'On'	'Off'	
# GroupLineMute example InterfaceName.Update('GroupLineMute') Value = InterfaceName.ReadStatus('GroupLineMute') InterfaceName.SubscribeStatus('GroupLineMute', None, FeedbackHandler)			
Command	Value		
GroupLineVolume	-100 to 12 in steps of 0.1		
# GroupLineVolume example InterfaceName.Update('GroupLineVolume') Value = InterfaceName.ReadStatus('GroupLineVolume') InterfaceName.SubscribeStatus('GroupLineVolume', None, FeedbackHandler)			
Command	Value	Value	
GroupMicMute	'On'	'Off'	
# GroupMicMute example InterfaceName.Update('GroupMicMute') Value = InterfaceName.ReadStatus('GroupMicMute') InterfaceName.SubscribeStatus('GroupMicMute', None, FeedbackHandler)			
Command	Value		
GroupMicVolume	-100 to 12 in steps of 0.1		
# GroupMicVolume example InterfaceName.Update('GroupMicVolume') Value = InterfaceName.ReadStatus('GroupMicVolume') InterfaceName.SubscribeStatus('GroupMicVolume', None, FeedbackHandler)			

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Command	Value	Value	
GroupOutputMute	'On'	'Off'	
# GroupOutputMute example InterfaceName.Update('GroupOutputMute') Value = InterfaceName.ReadStatus('GroupOutputMute') InterfaceName.SubscribeStatus('GroupOutputMute', None, FeedbackHandler)			
Command	Value		
GroupOutputVolume	-100 to 0 in steps of 0.1		
# GroupOutputVolume example InterfaceName.Update('GroupOutputVolume') Value = InterfaceName.ReadStatus('GroupOutputVolume') InterfaceName.SubscribeStatus('GroupOutputVolume', None, FeedbackHandler)			
Command	Value	Value	
GroupProgramMute	'On'	'Off'	
# GroupProgramMute example InterfaceName.Update('GroupProgramMute') Value = InterfaceName.ReadStatus('GroupProgramMute') InterfaceName.SubscribeStatus('GroupProgramMute', None, FeedbackHandler)			
Command	Value		
GroupProgramVolume	-100 to 12 in steps of 0.1		
# GroupProgramVolume example InterfaceName.Update('GroupProgramVolume') Value = InterfaceName.ReadStatus('GroupProgramVolume') InterfaceName.SubscribeStatus('GroupProgramVolume', None, FeedbackHandler)			
Command	Value		
GroupTreble	-24 to 24 in steps of 0.1		
# GroupTreble example InterfaceName.Update('GroupTreble') Value = InterfaceName.ReadStatus('GroupTreble') InterfaceName.SubscribeStatus('GroupTreble', None, FeedbackHandler)			
Command	Value	Value	
HDCPInputAuthorization	'On'	'Off'	
Qualifier Key	Qualifier Value	Qualifier Value	
'Input'	'2' – '6' ²	'2' – '8' ³	
# HDCPInputAuthorization example InterfaceName.Update('HDCPInputAuthorization', {'Input': '2'}) Value = InterfaceName.ReadStatus('HDCPInputAuthorization', {'Input': '2'}) InterfaceName.SubscribeStatus('HDCPInputAuthorization', None, FeedbackHandler)			
Command	Value	Value	Value
HDCPInputStatus	'No Source Device Detected'	'Source Detected with HDCP'	'Source Detected without HDCP'
Qualifier Key	Qualifier Value	Qualifier Value	
'Input'	'1' – '6' ²	'1' – '8' ³	
# HDCPInputStatus example InterfaceName.Update('HDCPInputStatus', {'Input': '1'}) Value = InterfaceName.ReadStatus('HDCPInputStatus', {'Input': '1'}) InterfaceName.SubscribeStatus('HDCPInputStatus', None, FeedbackHandler)			
Command	Value	Value	Value
HDCPOutputStatus	'No Sink Device Detected'	'Sink Detected with HDCP'	'Sink Detected without HDCP'
Qualifier Key	Qualifier Value	Qualifier Value	Qualifier Value
'Output'	'1A'	'1B'	'Loop Out'
# HDCPOutputStatus example InterfaceName.Update('HDCPOutputStatus', {'Output': '1A'}) Value = InterfaceName.ReadStatus('HDCPOutputStatus', {'Output': '1A'}) InterfaceName.SubscribeStatus('HDCPOutputStatus', None, FeedbackHandler)			

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Command Input	Qualifier Value '1' – '6' ²	Qualifier Value '1' – '8' ³	Qualifier Value 'Aux' ⁵
Qualifier Key 'Type'	Qualifier Value 'Audio'	Qualifier Value 'Video'	Qualifier Value 'Audio/Video'
# Input example InterfaceName.Update('Input', {'Type': 'Audio'}) Value = InterfaceName.ReadStatus('Input', {'Type': 'Audio'}) InterfaceName.SubscribeStatus('Input', None, FeedbackHandler)			
Command InputSignalStatus	Value 'Active'	Value 'Not Active'	
Qualifier Key 'Input'	Qualifier Value '1' – '6' ²	Qualifier Value '1' – '8' ³	
# InputSignalStatus example InterfaceName.Update('InputSignalStatus', {'Input': '1'}) Value = InterfaceName.ReadStatus('InputSignalStatus', {'Input': '1'}) InterfaceName.SubscribeStatus('InputSignalStatus', None, FeedbackHandler)			
Command InputSignalType	Value 'No Signal' 'DisplayPort'	Value 'DVI'	Value 'HDMI'
Qualifier Key 'Input'	Qualifier Value '1' – '6' ²	Qualifier Value '1' – '8' ³	
# InputSignalType example InterfaceName.Update('InputSignalType', {'Input': '1'}) Value = InterfaceName.ReadStatus('InputSignalType', {'Input': '1'}) InterfaceName.SubscribeStatus('InputSignalType', None, FeedbackHandler)			
Command LineInputGain	Value -18 to 24 in steps of 0.1		
Qualifier Key 'Input'	Qualifier Value 'Line In 3' 'File Player'	Qualifier Value 'Line In 4'	Qualifier Value 'Aux'
# LineInputGain example InterfaceName.Update('LineInputGain', {'Input': 'Line In 3'}) Value = InterfaceName.ReadStatus('LineInputGain', {'Input': 'Line In 3'}) InterfaceName.SubscribeStatus('LineInputGain', None, FeedbackHandler)			
Command LineInputMute	Value 'On'	Value 'Off'	
Qualifier Key 'Input'	Qualifier Value 'Line In 3' 'File Player'	Qualifier Value 'Line In 4'	Qualifier Value 'Aux'
# LineInputMute example InterfaceName.Update('LineInputMute', {'Input': 'Line In 3'}) Value = InterfaceName.ReadStatus('LineInputMute', {'Input': 'Line In 3'}) InterfaceName.SubscribeStatus('LineInputMute', None, FeedbackHandler)			
Command Logo	Value '1' – '16'	Value 'Off'	
# Logo example InterfaceName.Update('Logo') Value = InterfaceName.ReadStatus('Logo') InterfaceName.SubscribeStatus('Logo', None, FeedbackHandler)			
Command LoopOut	Value '1' – '6' ²	Value '1' – '8' ³	
# LoopOut example InterfaceName.Update('LoopOut') Value = InterfaceName.ReadStatus('LoopOut') InterfaceName.SubscribeStatus('LoopOut', None, FeedbackHandler)			
Command	Value		

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MicLineInputGain	-18 to 80 in steps of 0.1		
Qualifier Key 'Input'	Qualifier Value '1' – '2'		
# MicLineInputGain example InterfaceName.Update('MicLineInputGain', {'Input': '1'}) Value = InterfaceName.ReadStatus('MicLineInputGain', {'Input': '1'}) InterfaceName.SubscribeStatus('MicLineInputGain', None, FeedbackHandler)			
Command MicLineInputMute	Value 'On'	Value 'Off'	
Qualifier Key 'Input'	Qualifier Value '1' – '2'		
# MicLineInputMute example InterfaceName.Update('MicLineInputMute', {'Input': '1'}) Value = InterfaceName.ReadStatus('MicLineInputMute', {'Input': '1'}) InterfaceName.SubscribeStatus('MicLineInputMute', None, FeedbackHandler)			
Command OutputAttenuation	Value -100 to 0 in steps of 0.1		
Qualifier Key 'Output'	Qualifier Value 'HDMI Out' 'Line Out 1' 'Line Out 4'	Qualifier Value 'DTP2/XTP/HDBT Out' 'Line Out 2' 'Amp Out' ⁴	Qualifier Value 'DTP Analog Out' 'Line Out 3'
# OutputAttenuation example InterfaceName.Update('OutputAttenuation', {'Output': 'HDMI Out'}) Value = InterfaceName.ReadStatus('OutputAttenuation', {'Output': 'HDMI Out'}) InterfaceName.SubscribeStatus('OutputAttenuation', None, FeedbackHandler)			
Command OutputFormat	Value 'Auto' 'HDMI RGB 444 Limited' 'HDMI YUV 420 Limited'	Value 'DVI RGB 444' 'HDMI YUV 444 Limited'	Value 'HDMI RGB 444 Full' 'HDMI YUV 422 Limited'
Qualifier Key 'Output'	Qualifier Value '1A'	Qualifier Value '1B'	Qualifier Value 'Loop Out'
# OutputFormat example InterfaceName.Update('OutputFormat', {'Output': '1A'}) Value = InterfaceName.ReadStatus('OutputFormat', {'Output': '1A'}) InterfaceName.SubscribeStatus('OutputFormat', None, FeedbackHandler)			
Command OutputMute	Value 'On'	Value 'Off'	
Qualifier Key 'Output'	Qualifier Value 'HDMI Out' 'Line Out 1' 'Line Out 4'	Qualifier Value 'DTP2/XTP/HDBT Out' 'Line Out 2' 'Amp Out' ⁴	Qualifier Value 'DTP Analog Out' 'Line Out 3'
# OutputMute example InterfaceName.Update('OutputMute', {'Output': 'HDMI Out'}) Value = InterfaceName.ReadStatus('OutputMute', {'Output': 'HDMI Out'}) InterfaceName.SubscribeStatus('OutputMute', None, FeedbackHandler)			
Command OutputResolution	Value '640x480' '1280x768' '1360x768' '1400x1050' '1600x1200' '480p (60Hz)' '720p (29.97Hz)' '720p (59.94Hz)'	Value '800x600' '1280x800' '1366x768' '1600x900' '1920x1200' '576p' '720p (30Hz)' '720p (60Hz)'	Value '1024x768' '1280x1024' '1440x900' '1680x1050' '480p (59.94Hz)' '720p (25Hz)' '720p (50Hz)' '1080i (50Hz)'

Global Scriptor Module Communication Sheet

	'1080i (59.94Hz)'	'1080i (60Hz)'	'1080p (23.98Hz)'
	'1080p (24Hz)'	'1080p (25Hz)'	'1080p (29.97Hz)'
	'1080p (30Hz)'	'1080p (50Hz)'	'1080p (59.94Hz)'
	'1080p (60Hz)'	'2048x1080 (2K) (23.98Hz)'	'2048x1080 (2K) (24Hz)'
	'2048x1080 (2K) (25Hz)'	'2048x1080 (2K) (29.97Hz)'	'2048x1080 (2K) (30Hz)'
	'2048x1080 (2K) (50Hz)'	'2048x1080 (2K) (59.94Hz)'	'2048x1080 (2K) (60Hz)'
	'2048x1200 (60Hz)'	'2048x1536 (60Hz)'	'2560x1080 (60Hz)'
	'2560x1440 (60Hz)'	'2560x1600 (60Hz)'	'3840x2160 (23.98Hz)'
	'3840x2160 (24Hz)'	'3840x2160 (25Hz)'	'3840x2160 (29.97Hz)'
	'3840x2160 (30Hz)'	'3840x2160 (50Hz)'	'3840x2160 (59.94Hz)'
	'3840x2160 (60Hz)'	'4096x2160 (23.98Hz)'	'4096x2160 (24Hz)'
	'4096x2160 (25Hz)'	'4096x2160 (29.97Hz)'	'4096x2160 (30Hz)'
	'4096x2160 (50Hz)'	'4096x2160 (59.94Hz)'	'4096x2160 (60Hz)'
	'Custom 1'	'Custom 2'	'Custom 3'
	'Custom 4'	'Custom 5'	'Custom 6'
	'Custom 7'	'Custom 8'	'Custom 9'
	'Custom 10'		
<pre># OutputResolution example InterfaceName.Update('OutputResolution') Value = InterfaceName.ReadStatus('OutputResolution') InterfaceName.SubscribeStatus('OutputResolution', None, FeedbackHandler)</pre>			
Command	Value	Value	Value
PowerSaveMode	'Lowest'	'Off'	'Low'
<pre># PowerSaveMode example InterfaceName.Update('PowerSaveMode') Value = InterfaceName.ReadStatus('PowerSaveMode') InterfaceName.SubscribeStatus('PowerSaveMode', None, FeedbackHandler)</pre>			
Command	Value	Value	Value
ScreenSaverStatus	'Active Input Detected; Timer not running'	'No Active Input; Timer running; Output sync enabled'	'No Active Input; Timer expired; Output sync disabled'
<pre># ScreenSaverStatus example InterfaceName.Update('ScreenSaverStatus') Value = InterfaceName.ReadStatus('ScreenSaverStatus') InterfaceName.SubscribeStatus('ScreenSaverStatus', None, FeedbackHandler)</pre>			
Command	Value		
Temperature	Degrees Celsius		
<pre># Temperature example InterfaceName.Update('Temperature') Value = InterfaceName.ReadStatus('Temperature') InterfaceName.SubscribeStatus('Temperature', None, FeedbackHandler)</pre>			
Command	Value	Value	Value
TestPattern	'Crop'	'Alternating Pixels'	'Crosshatch'
	'Color Bars'	'Grayscale'	'Audio Test'
	'Off'		
<pre># TestPattern example InterfaceName.Update('TestPattern') Value = InterfaceName.ReadStatus('TestPattern') InterfaceName.SubscribeStatus('TestPattern', None, FeedbackHandler)</pre>			
Command	Value	Value	Value

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VideoMute	'On'	'Off'	'On with Sync'
Qualifier Key	Qualifier Value	Qualifier Value	Qualifier Value
'Output'	'1A'	'1B'	'Loop Out'
<pre># VideoMute example InterfaceName.Update('VideoMute', {'Output': '1A'}) Value = InterfaceName.ReadStatus('VideoMute', {'Output': '1A'}) InterfaceName.SubscribeStatus('VideoMute', None, FeedbackHandler)</pre>			

¹ Off: disabled, front panel controls fully accessible (default)

Mode 1: Complete front panel lockout

Mode 2: Allows Input switching, logos, and volume control only

Mode 3: Allows Input switching and logos only

Mode 4: Volume control only

² Only supported for IN1806 models

³ Only supported for IN1808 models

⁴ Only supported for MA or SA models

⁵ Only supported when Type command parameter is Audio

Cable and Adapter Requirements

Captive Screw to Captive Screw

Notes for the Device

Serial communication

Port Type: RS-232

Baud Rate: 9600

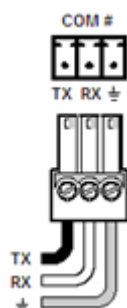
Data Bits: 8

Parity: None

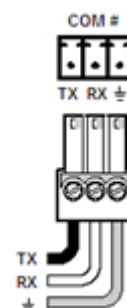
Stop Bits: One

Flow Control: None

Pin Assignments Diagram



Signal	Main Cable	Signal
TxD		TxD
RxD		RxD
GND		GND



Network communication

When configuring the Ethernet module, be sure device settings match those of the Global Scriptor ethernet interface.

Port Type:	Ethernet
Default Port:	22023
Logon Credentials Supported:	Yes
Default Username:	admin
Multi-Connection	Yes
Capabilities:	
Port Changeability:	Yes

Ethernet Module Configuration Description

- Please refer to user manual for settings and changes to the network communication parameters such as: Username, Password, and Port Number.
- Default Username is “admin” but can be changed to “user”
 - If User password is used for authentication, control of the device may be limited.

Notes for the Device

Appendix A. Set Commands

Aspect Ratio Fill Input 1	w1*1ASPR\x0D
Aspect Ratio Fill Input 6	w6*1ASPR\x0D
Aspect Ratio Fill Input 8	w8*1ASPR\x0D
Aspect Ratio Follow Input 1	w1*2ASPR\x0D
Aspect Ratio Follow Input 6	w6*2ASPR\x0D
Aspect Ratio Follow Input 8	w8*2ASPR\x0D
Audio Format Analog Aux Input 1	wI1*1AFMT\x0D
Audio Format Analog Aux Input 6	wI6*1AFMT\x0D
Audio Format Analog Aux Input 8	wI8*1AFMT\x0D
Audio Format LPCM-2Ch Auto AUX Input 1	wI1*4AFMT\x0D
Audio Format LPCM-2Ch Auto AUX Input 6	wI6*4AFMT\x0D
Audio Format LPCM-2Ch Auto AUX Input 8	wI8*4AFMT\x0D
Audio Format LPCM-2Ch Input 1	wI1*2AFMT\x0D
Audio Format LPCM-2Ch Input 6	wI6*2AFMT\x0D
Audio Format LPCM-2Ch Input 8	wI8*2AFMT\x0D
Audio Format Multi-Ch Auto AUX Input 1	wI1*5AFMT\x0D
Audio Format Multi-Ch Auto AUX Input 6	wI6*5AFMT\x0D
Audio Format Multi-Ch Auto AUX Input 8	wI8*5AFMT\x0D
Audio Format Multi-Ch Input 1	wI1*3AFMT\x0D
Audio Format Multi-Ch Input 6	wI6*3AFMT\x0D
Audio Format Multi-Ch Input 8	wI8*3AFMT\x0D
Audio Format None Input 1	wI1*0AFMT\x0D
Audio Format None Input 6	wI6*0AFMT\x0D
Audio Format None Input 8	wI8*0AFMT\x0D
Auto Image Execute	1*0A
Auto Image Execute and Fill	1*1A
Auto Image Execute and Follow	1*2A
Auto Switch Mode Input Memory Priority	w2AUSW\x0D
Auto Switch Mode Off	w0AUSW\x0D
Auto Switch Mode User Defined Priority	w1AUSW\x0D
CEC Power Off Output 1A	w01*%36DCEC\x0D
CEC Power Off Output 1B	w02*%36DCEC\x0D
CEC Power Off Output Loop Out	w03*%36DCEC\x0D
CEC Power On Output 1A	w01*%04DCEC\x0D
CEC Power On Output 1B	w02*%04DCEC\x0D
CEC Power On Output Loop Out	w03*%04DCEC\x0D
CEC Show As Active Source None Output 1A	w01*"ShowMe"DCEC\x0D
CEC Show As Active Source None Output 1B	w02*"ShowMe"DCEC\x0D
CEC Show As Active Source None Output Loop Out	w03*"ShowMe"DCEC\x0D
CEC Volume Down Output 1A	w01*%44%42DCEC\x0D
CEC Volume Down Output 1B	w02*%44%42DCEC\x0D
CEC Volume Down Output Loop Out	w03*%44%42DCEC\x0D

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CEC Volume Up Output 1A	w01*%44%41DCEC\x0D
CEC Volume Up Output 1B	w02*%44%41DCEC\x0D
CEC Volume Up Output Loop Out	w03*%44%41DCEC\x0D
Embedded Input Gain -18 Input 1	wG30000*-180AU\x0D
Embedded Input Gain -18 Input 6	wG30010*-180AU\x0D
Embedded Input Gain -18 Input 8	wG30014*-180AU\x0D
Embedded Input Gain 24 Input 1	wG30000*240AU\x0D
Embedded Input Gain 24 Input 6	wG30010*240AU\x0D
Embedded Input Gain 24 Input 8	wG30014*240AU\x0D
Embedded Input Mute Off Input 1	wM30000*0AU\x0D
Embedded Input Mute Off Input 6	wM30010*0AU\x0D
Embedded Input Mute Off Input 8	wM30014*0AU\x0D
Embedded Input Mute On Input 1	wM30000*1AU\x0D
Embedded Input Mute On Input 6	wM30010*1AU\x0D
Embedded Input Mute On Input 8	wM30014*1AU\x0D
Executive Mode Mode 1	1X
Executive Mode Mode 2	2X
Executive Mode Mode 3	3X
Executive Mode Mode 4	4X
Executive Mode Off	0X
Freeze Off	1*0F
Freeze On	1*1F
Global Video Mute Off	0B
Global Video Mute On	1B
Global Video Mute On with Sync	2B
Group Bass 24	wD7*240GRPM\x0D
Group Bass -24	wD7*-240GRPM\x0D
Group Line Mute Off	wD6*0GRPM\x0D
Group Line Mute On	wD6*1GRPM\x0D
Group Line Volume -100	wD5*-1000GRPM\x0D
Group Line Volume 12	wD5*120GRPM\x0D
Group Mic Mute Off	wD2*0GRPM\x0D
Group Mic Mute On	wD2*1GRPM\x0D
Group Mic Volume -100	wD1*-1000GRPM\x0D
Group Mic Volume 12	wD1*120GRPM\x0D
Group Output Mute Off	wD10*0GRPM\x0D
Group Output Mute On	wD10*1GRPM\x0D
Group Output Volume 0	wD9*0GRPM\x0D
Group Output Volume -100	wD9*-1000GRPM\x0D
Group Program Mute Off	wD4*0GRPM\x0D
Group Program Mute On	wD4*1GRPM\x0D
Group Program Volume -100	wD3*-1000GRPM\x0D
Group Program Volume 12	wD3*120GRPM\x0D
Group Treble 24	wD8*240GRPM\x0D

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Group Treble -24	wD8*-240GRPM\x0D
HDCP Input Authorization Off Input 2	wE2*0HDCP\x0D
HDCP Input Authorization Off Input 6	wE6*0HDCP\x0D
HDCP Input Authorization Off Input 8	wE8*0HDCP\x0D
HDCP Input Authorization On Input 2	wE2*1HDCP\x0D
HDCP Input Authorization On Input 6	wE6*1HDCP\x0D
HDCP Input Authorization On Input 8	wE8*1HDCP\x0D
Input 1 Type Audio	1*1\$
Input 1 Type Audio/Video	1*1!
Input 1 Type Video	1*1%
Input 6 Type Audio	6*1\$
Input 6 Type Audio/Video	6*1!
Input 6 Type Video	6*1%
Input 8 Type Audio	8*1\$
Input 8 Type Audio/Video	8*1!
Input 8 Type Video	8*1%
Input Aux Type Audio	9*1\$
Input Aux Type Audio/Video	9*1!
Input Aux Type Video	9*1%
Input Preset Recall 1	2*1.
Input Preset Recall 128	2*128.
Input Preset Save 1	2*1,
Input Preset Save 128	2*128,
Line Input Gain -18 Input Aux	wG30016*-180AU\x0D
Line Input Gain -18 Input File Player	wG40004*-180AU\x0D
Line Input Gain -18 Input Line In 3	wG40002*-180AU\x0D
Line Input Gain -18 Input Line In 4	wG40003*-180AU\x0D
Line Input Gain 24 Input Aux	wG30016*240AU\x0D
Line Input Gain 24 Input File Player	wG40004*240AU\x0D
Line Input Gain 24 Input Line In 3	wG40002*240AU\x0D
Line Input Gain 24 Input Line In 4	wG40003*240AU\x0D
Line Input Mute Off Input Aux	wM30016*0AU\x0D
Line Input Mute Off Input File Player	wM40004*0AU\x0D
Line Input Mute On Input Aux	wM30016*1AU\x0D
Line Input Mute On Input File Player	wM40004*1AU\x0D
Logo 1	wE1*1LOGO\x0D
Logo 16	wE1*16LOGO\x0D
Logo Off	wE1*0LOGO\x0D
Loop Out 1	w1LOUT\x0D
Loop Out 6	w6LOUT\x0D
Loop Out 8	w8LOUT\x0D
Mic Line Input Gain -18 Input 1	wG40000*-180AU\x0D
Mic Line Input Gain -18 Input 2	wG40001*-180AU\x0D
Mic Line Input Gain 80 Input 1	wG40000*800AU\x0D

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Mic Line Input Gain 80 Input 2	wG40001*800AU\x0D
Mic Line Input Mute Off Input 1	wM40000*0AU\x0D
Mic Line Input Mute Off Input 2	wM40001*0AU\x0D
Mic Line Input Mute On Input 1	wM40000*1AU\x0D
Mic Line Input Mute On Input 2	wM40001*1AU\x0D
Output Attenuation 0 Output Amp Out	wG60010*0AU\x0D
Output Attenuation 0 Output Line Out 1	wG60006*0AU\x0D
Output Attenuation 0 Output Line Out 2	wG60007*0AU\x0D
Output Attenuation 0 Output Line Out 3	wG60008*0AU\x0D
Output Attenuation 0 Output Line Out 4	wG60009*0AU\x0D
Output Attenuation -100 Output Amp Out	wG60010*-1000AU\x0D
Output Attenuation -100 Output Line Out 1	wG60006*-1000AU\x0D
Output Attenuation -100 Output Line Out 2	wG60007*-1000AU\x0D
Output Attenuation -100 Output Line Out 3	wG60008*-1000AU\x0D
Output Attenuation -100 Output Line Out 4	wG60009*-1000AU\x0D
Output Format Auto Output 1A	w1*0VTPO\x0D
Output Format Auto Output 1B	w2*0VTPO\x0D
Output Format Auto Output Loop Out	w3*0VTPO\x0D
Output Format DVI RGB 444 Output 1A	w1*1VTPO\x0D
Output Format DVI RGB 444 Output 1B	w2*1VTPO\x0D
Output Format DVI RGB 444 Output Loop Out	w3*1VTPO\x0D
Output Format HDMI RGB 444 Full Output 1A	w1*2VTPO\x0D
Output Format HDMI RGB 444 Full Output 1B	w2*2VTPO\x0D
Output Format HDMI RGB 444 Full Output Loop Out	w3*2VTPO\x0D
Output Format HDMI RGB 444 Limited Output 1A	w1*3VTPO\x0D
Output Format HDMI RGB 444 Limited Output 1B	w2*3VTPO\x0D
Output Format HDMI RGB 444 Limited Output Loop Out	w3*3VTPO\x0D
Output Format HDMI YUV 420 Limited Output 1A	w1*9VTPO\x0D
Output Format HDMI YUV 420 Limited Output 1B	w2*9VTPO\x0D
Output Format HDMI YUV 420 Limited Output Loop Out	w3*9VTPO\x0D
Output Format HDMI YUV 422 Limited Output 1A	w1*7VTPO\x0D
Output Format HDMI YUV 422 Limited Output 1B	w2*7VTPO\x0D
Output Format HDMI YUV 422 Limited Output Loop Out	w3*7VTPO\x0D
Output Format HDMI YUV 444 Limited Output 1A	w1*5VTPO\x0D
Output Format HDMI YUV 444 Limited Output 1B	w2*5VTPO\x0D
Output Format HDMI YUV 444 Limited Output Loop Out	w3*5VTPO\x0D
Output Mute Off Output Amp Out	wM60010*0AU\x0D
Output Mute On Output Amp Out	wM60010*1AU\x0D
Output Resolution 1024x768	w1*12RATE\x0D
Output Resolution 1080i (50Hz)	w1*35RATE\x0D
Output Resolution 1080i (59.94Hz)	w1*36RATE\x0D

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Output Resolution 1080i (60Hz)	w1*37RATE\x0D
Output Resolution 1080p (23.98Hz)	w1*38RATE\x0D
Output Resolution 1080p (24Hz)	w1*39RATE\x0D
Output Resolution 1080p (25Hz)	w1*40RATE\x0D
Output Resolution 1080p (29.97Hz)	w1*41RATE\x0D
Output Resolution 1080p (30Hz)	w1*42RATE\x0D
Output Resolution 1080p (50Hz)	w1*43RATE\x0D
Output Resolution 1080p (59.94Hz)	w1*44RATE\x0D
Output Resolution 1080p (60Hz)	w1*45RATE\x0D
Output Resolution 1280x1024	w1*15RATE\x0D
Output Resolution 1280x768	w1*13RATE\x0D
Output Resolution 1280x800	w1*14RATE\x0D
Output Resolution 1360x768	w1*16RATE\x0D
Output Resolution 1366x768	w1*17RATE\x0D
Output Resolution 1400x1050	w1*19RATE\x0D
Output Resolution 1440x900	w1*18RATE\x0D
Output Resolution 1600x1200	w1*22RATE\x0D
Output Resolution 1600x900	w1*20RATE\x0D
Output Resolution 1680x1050	w1*21RATE\x0D
Output Resolution 1920x1200	w1*23RATE\x0D
Output Resolution 2048x1080 (2K) (23.98Hz)	w1*46RATE\x0D
Output Resolution 2048x1080 (2K) (24Hz)	w1*47RATE\x0D
Output Resolution 2048x1080 (2K) (25Hz)	w1*48RATE\x0D
Output Resolution 2048x1080 (2K) (29.97Hz)	w1*49RATE\x0D
Output Resolution 2048x1080 (2K) (30Hz)	w1*50RATE\x0D
Output Resolution 2048x1080 (2K) (50Hz)	w1*51RATE\x0D
Output Resolution 2048x1080 (2K) (59.94Hz)	w1*52RATE\x0D
Output Resolution 2048x1080 (2K) (60Hz)	w1*53RATE\x0D
Output Resolution 2048x1200 (60Hz)	w1*54RATE\x0D
Output Resolution 2048x1536 (60Hz)	w1*55RATE\x0D
Output Resolution 2560x1080 (60Hz)	w1*56RATE\x0D
Output Resolution 2560x1440 (60Hz)	w1*57RATE\x0D
Output Resolution 2560x1600 (60Hz)	w1*58RATE\x0D
Output Resolution 3840x2160 (23.98Hz)	w1*59RATE\x0D
Output Resolution 3840x2160 (24Hz)	w1*60RATE\x0D
Output Resolution 3840x2160 (25Hz)	w1*61RATE\x0D
Output Resolution 3840x2160 (29.97Hz)	w1*62RATE\x0D
Output Resolution 3840x2160 (30Hz)	w1*63RATE\x0D
Output Resolution 3840x2160 (50Hz)	w1*64RATE\x0D
Output Resolution 3840x2160 (59.94Hz)	w1*65RATE\x0D
Output Resolution 3840x2160 (60Hz)	w1*66RATE\x0D
Output Resolution 4096x2160 (23.98Hz)	w1*69RATE\x0D
Output Resolution 4096x2160 (24Hz)	w1*70RATE\x0D
Output Resolution 4096x2160 (25Hz)	w1*71RATE\x0D

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Output Resolution 4096x2160 (29.97Hz)	w1*72RATE\x0D
Output Resolution 4096x2160 (30Hz)	w1*73RATE\x0D
Output Resolution 4096x2160 (50Hz)	w1*74RATE\x0D
Output Resolution 4096x2160 (59.94Hz)	w1*75RATE\x0D
Output Resolution 4096x2160 (60Hz)	w1*76RATE\x0D
Output Resolution 480p (59.94Hz)	w1*24RATE\x0D
Output Resolution 480p (60Hz)	w1*25RATE\x0D
Output Resolution 576p	w1*26RATE\x0D
Output Resolution 640x480	w1*10RATE\x0D
Output Resolution 720p (25Hz)	w1*29RATE\x0D
Output Resolution 720p (29.97Hz)	w1*30RATE\x0D
Output Resolution 720p (30Hz)	w1*31RATE\x0D
Output Resolution 720p (50Hz)	w1*32RATE\x0D
Output Resolution 720p (59.94Hz)	w1*33RATE\x0D
Output Resolution 720p (60Hz)	w1*34RATE\x0D
Output Resolution 800x600	w1*11RATE\x0D
Output Resolution Custom 1	w1*201RATE\x0D
Output Resolution Custom 10	w1*210RATE\x0D
Output Resolution Custom 2	w1*202RATE\x0D
Output Resolution Custom 3	w1*203RATE\x0D
Output Resolution Custom 4	w1*204RATE\x0D
Output Resolution Custom 5	w1*205RATE\x0D
Output Resolution Custom 6	w1*206RATE\x0D
Output Resolution Custom 7	w1*207RATE\x0D
Output Resolution Custom 8	w1*208RATE\x0D
Output Resolution Custom 9	w1*209RATE\x0D
Power Save Mode Low	w2PSAV\x0D
Power Save Mode Lowest	w1PSAV\x0D
Power Save Mode Off	w0PSAV\x0D
Test Pattern Alternating Pixels	w1*2TEST\x0D
Test Pattern Audio Test	w1*6TEST\x0D
Test Pattern Color Bars	w1*4TEST\x0D
Test Pattern Crop	w1*1TEST\x0D
Test Pattern Crosshatch	w1*3TEST\x0D
Test Pattern Grayscale	w1*5TEST\x0D
Test Pattern Off	w1*0TEST\x0D
Video Mute Off Output 1A	1*0B
Video Mute Off Output 1B	2*0B
Video Mute Off Output Loop Out	3*0B
Video Mute On Output 1A	1*1B
Video Mute On Output 1B	2*1B
Video Mute On Output Loop Out	3*1B
Video Mute On with Sync Output 1A	1*2B
Video Mute On with Sync Output 1B	2*2B

Video Mute On with Sync Output Loop Out
--

3*2B

Appendix B. Update Commands

Aspect Ratio Input 1	w1ASPR\x0D
Aspect Ratio Input 6	w6ASPR\x0D
Aspect Ratio Input 8	w8ASPR\x0D
Audio Format Input 1	wI1AFMT\x0D
Audio Format Input 6	wI6AFMT\x0D
Audio Format Input 8	wI8AFMT\x0D
Auto Switch Mode	wAUSW\x0D
Embedded Input Gain Input 1	wG30000AU\x0D
Embedded Input Gain Input 6	wG30010AU\x0D
Embedded Input Gain Input 8	wG30014AU\x0D
Embedded Input Mute Input 1	wM30000AU\x0D
Embedded Input Mute Input 6	wM30010AU\x0D
Embedded Input Mute Input 8	wM30014AU\x0D
Executive Mode	X
Freeze	1F
Global Video Mute	B
Group Bass	wD7GRPM\x0D
Group Line Mute	wD6GRPM\x0D
Group Line Volume	wD5GRPM\x0D
Group Mic Mute	wD2GRPM\x0D
Group Mic Volume	wD1GRPM\x0D
Group Output Mute	wD10GRPM\x0D
Group Output Volume	wD9GRPM\x0D
Group Program Mute	wD4GRPM\x0D
Group Program Volume	wD3GRPM\x0D
Group Treble	wD8GRPM\x0D
HDCP Input Authorization Input 2	wE2HDCP\x0D
HDCP Input Authorization Input 6	wE6HDCP\x0D
HDCP Input Authorization Input 8	wE8HDCP\x0D
HDCP Input Status Input 1	wI1HDCP\x0D
HDCP Input Status Input 6	wI6HDCP\x0D
HDCP Input Status Input 8	wI8HDCP\x0D
HDCP Output Status Output 1A	wO1HDCP\x0D
HDCP Output Status Output 1B	wO2HDCP\x0D
HDCP Output Status Output Loop Out	wO3HDCP\x0D
Input Signal Status Input 1	w0LS\x0D
Input Signal Status Input 6	w0LS\x0D
Input Signal Status Input 8	w0LS\x0D
Input Signal Type Input 1	1*\
Input Signal Type Input 6	6*\
Input Signal Type Input 8	8*\
Input Type Audio	\$

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Input Type Video	%
Line Input Gain Input Aux	wG30016AU\x0D
Line Input Gain Input File Player	wG40004AU\x0D
Line Input Gain Input Line In 3	wG40002AU\x0D
Line Input Gain Input Line In 4	wG40003AU\x0D
Line Input Mute Input Aux	wM30016AU\x0D
Line Input Mute Input File Player	wM40004AU\x0D
Line Input Mute Input Line In 3	wM40002AU\x0D
Line Input Mute Input Line In 4	wM40003AU\x0D
Logo	wE1LOGO\x0D
Loop Out	wLOUT\x0D
Mic Line Input Gain Input 1	wG40000AU\x0D
Mic Line Input Gain Input 2	wG40001AU\x0D
Mic Line Input Mute Input 1	wM40000AU\x0D
Mic Line Input Mute Input 2	wM40001AU\x0D
Output Attenuation Output Amp Out	wG60010AU\x0D
Output Attenuation Output DTP Analog Out	wG60004AU\x0D
Output Attenuation Output DTP2/XTP/HDBT Out	wG60002AU\x0D
Output Attenuation Output HDMI Out	wG60000AU\x0D
Output Attenuation Output Line Out 1	wG60006AU\x0D
Output Attenuation Output Line Out 2	wG60007AU\x0D
Output Attenuation Output Line Out 3	wG60008AU\x0D
Output Attenuation Output Line Out 4	wG60009AU\x0D
Output Format Output 1A	w1*VTP0\x0D
Output Format Output 1B	w2*VTP0\x0D
Output Format Output Loop Out	w3*VTP0\x0D
Output Mute Output Amp Out	wM60010AU\x0D
Output Mute Output DTP Analog Out	wM60004AU\x0D
Output Mute Output DTP2/XTP/HDBT Out	wM60002AU\x0D
Output Mute Output HDMI Out	wM60000AU\x0D
Output Mute Output Line Out 1	wM60006AU\x0D
Output Mute Output Line Out 2	wM60007AU\x0D
Output Mute Output Line Out 3	wM60008AU\x0D
Output Mute Output Line Out 4	wM60009AU\x0D
Output Resolution	w1RATE\x0D
Power Save Mode	wPSAV\x0D
Screen Saver Status	wS1SSAV\x0D
Temperature	w20STAT\x0D
Test Pattern	w1TEST\x0D
Video Mute Output 1A	1*B
Video Mute Output 1B	2*B
Video Mute Output Loop Out	3*B

