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 Scripter Modules, refer to the "Guide to Using Scripter Modules" document.

Device Specifications

Device Type:	Audio Processor
Manufacturer:	Extron
Software Version:	2.17.1.10
Firmware Version:	1.01
Model(s):	DMP 64

Tested on the Following Software and Firmware Versions

IP Link Pro Control Processor Firmware	Global Scripter Version
2.06.0001-b003	1.4.1

Version History

Module Version	Date	Notes
1_2_0_0	11/21/2017	Added full DSP Configurator image. Updated command names LineInputGain, LineInputMute. Updated qualifiers for the following commands: MixpointGain, MixpointMute, VirtualReturnGain, and VirtualReturnMute.
1_0_0_2	9/18/2017	Updated comm sheet to Rev B.
1_0_0_1	3/17/2017	Fixed verbose mode logic.
1_0_0_0	9/28/2016	Initial Version

Module Notes

- Unidirectional variable must be set to 'True' if status is not required. Default value is 'False'.
  Example: `InterfaceName.Unidirectional = 'True'`

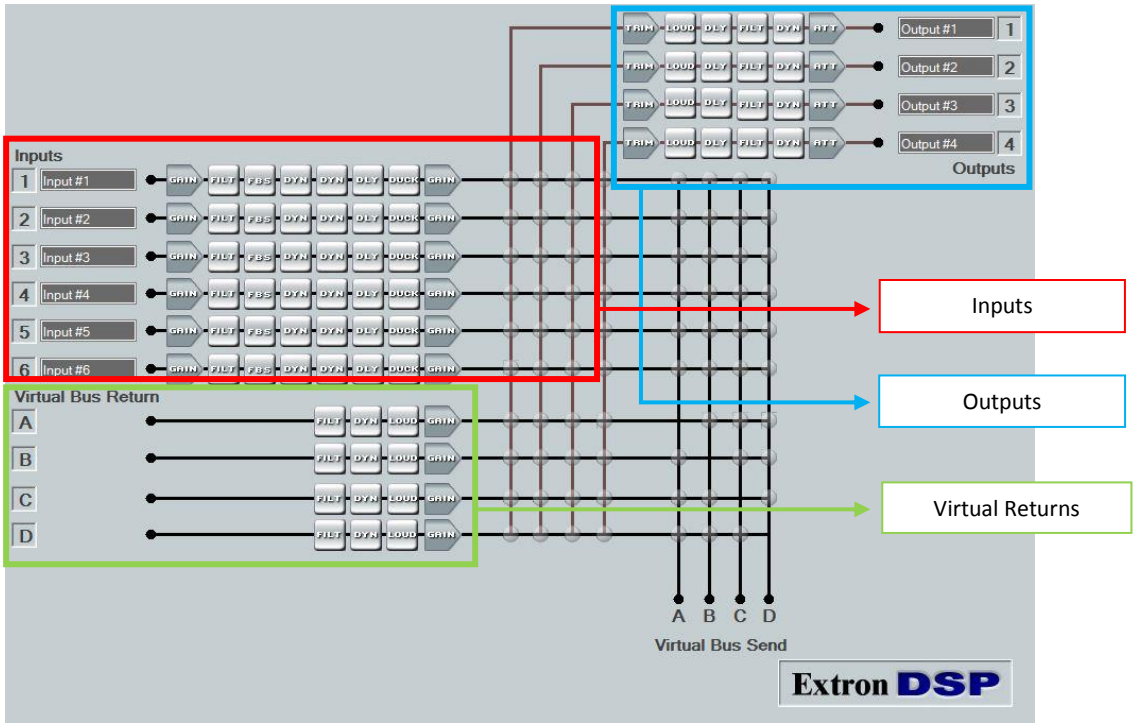
- connectionCounter variable must be set to the number of queries that will be sent to the device before displaying 'Disconnected' if no response is received. Default value is 15.
  Example: `InterfaceName.connectionCounter = 5`

- If login credentials are required, devicePassword must be set accordingly.
  Example: `InterfaceName.devicePassword = 'extron'`

Supported Classes and Examples

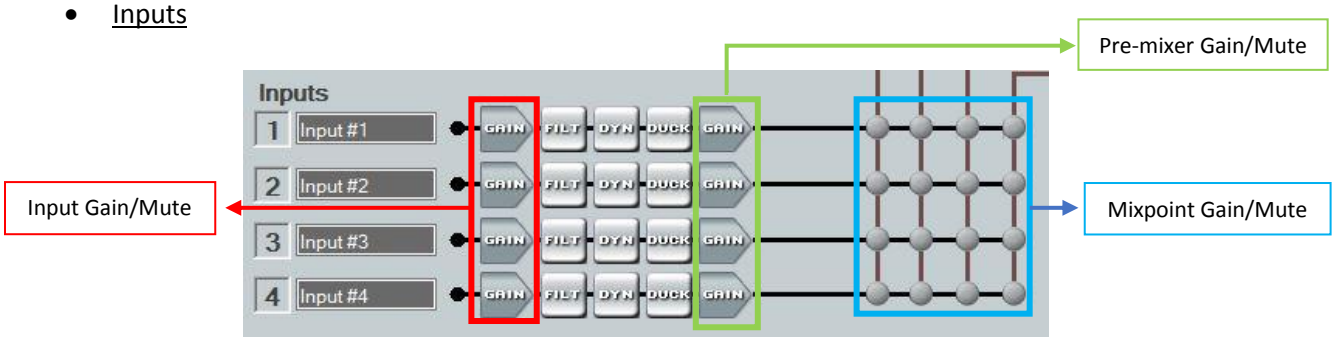
SerialClass
`InterfaceName = ModuleName.SerialClass(ProcessorName, 'COM1', Model='DMP 64')`
SerialOverEthernetClass
`InterfaceName = ModuleName.SerialOverEthernetClass('192.168.254.254', 2001, Model='DMP 64')`
EthernetClass
`InterfaceName = ModuleName.EthernetClass('192.168.254.254', 23, Model='DMP 64')`

DMP 64:

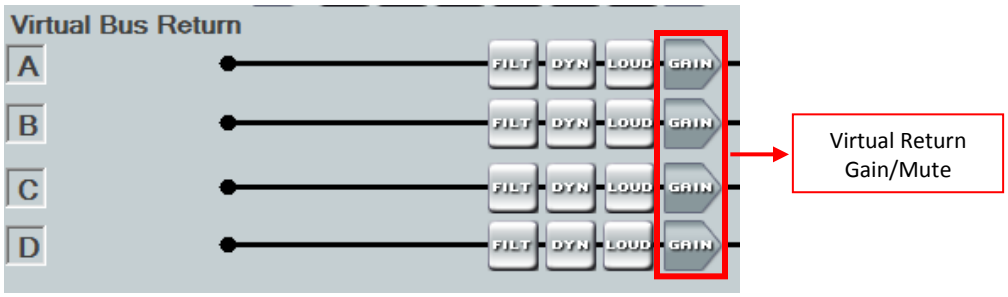

Inputs
Outputs
Virtual Bus Return
Virtual Bus Send
A B C D
Extron DSP

Extron DSP Configurator Labels:

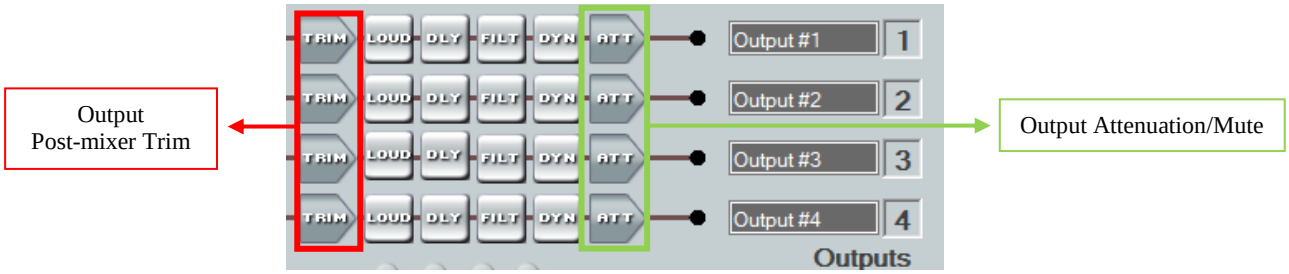
- Inputs



- Virtual Returns



- Outputs



Set Commands

Format with Qualifier:

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

Format without Qualifier:

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

Command **GroupMicLineInputGain**	Value -18 to 80 in steps of 0.1
Qualifier Key **'Group'**	Qualifier Value '1' – '32'
`# GroupMicLineInputGain example` `InterfaceName.Set('GroupMicLineInputGain', 80, {'Group': '1'})`	
Command **GroupMixpointGain**	Value -35 to 25 in steps of 0.1
Qualifier Key **'Group'**	Qualifier Value '1' – '32'
`# GroupMixpointGain example` `InterfaceName.Set('GroupMixpointGain', 25, {'Group': '1'})`	
Command **GroupMute**	Value 'On' Value 'Off'
Qualifier Key **'Group'**	Qualifier Value '1' – '32'
`# GroupMute example` `InterfaceName.Set('GroupMute', 'On', {'Group': '1'})`	
Command **GroupOutputAttenuation**	Value -100 to 0 in steps of 0.1
Qualifier Key **'Group'**	Qualifier Value '1' – '32'
`# GroupOutputAttenuation example` `InterfaceName.Set('GroupOutputAttenuation', 0, {'Group': '1'})`	
Command **GroupPostmixerTrim**	Value -12 to 12 in steps of 0.1
Qualifier Key **'Group'**	Qualifier Value '1' – '32'
`# GroupPostmixerTrim example` `InterfaceName.Set('GroupPostmixerTrim', 12, {'Group': '1'})`	
Command **GroupPremixerGain**	Value -100 to 12 in steps of 0.1
Qualifier Key **'Group'**	Qualifier Value '1' – '32'

`# GroupPremixerGain example` `InterfaceName.Set('GroupPremixerGain', 12, {'Group': '1'})`			
Command **GroupVirtualReturnGain**	Value -100 to 12 in steps of 0.1		
Qualifier Key **'Group'**	Qualifier Value '1' – '32'		
`# GroupVirtualReturnGain example` `InterfaceName.Set('GroupVirtualReturnGain', 12, {'Group': '1'})`			
Command **InputGain**	Value -18 to 80 in steps of 0.1		
Qualifier Key **'Input'**	Qualifier Value '1' – '6'		
`# InputGain example` `InterfaceName.Set('InputGain', 80, {'Input': '1'})`			
Command **InputMute**	Value 'On'	Value 'Off'	
Qualifier Key **'Input'**	Qualifier Value '1' – '6'		
`# InputMute example` `InterfaceName.Set('InputMute', 'On', {'Input': '1'})`			
Command **MixpointGain** [2]	Value -35 to 25 in steps of 0.1		
Qualifier Key **'Input'**	Qualifier Value '1' – '6' 'V. Return C'	Qualifier Value 'V. Return A' 'V. Return D'	Qualifier Value 'V. Return B'
Qualifier Key **'Output'**	Qualifier Value '1' – '4' 'V. Send C'	Qualifier Value 'V. Send A' 'V. Send D'	Qualifier Value 'V. Send B'
`# MixpointGain example` `InterfaceName.Set('MixpointGain', 25, {'Input': '1', 'Output': '1'})`			
Command **MixpointMute** [2]	Value 'On'	Value 'Off'	
Qualifier Key **'Input'**	Qualifier Value '1' – '6' 'V. Return C'	Qualifier Value 'V. Return A' 'V. Return D'	Qualifier Value 'V. Return B'
Qualifier Key **'Output'**	Qualifier Value '1' – '4' 'V. Send C'	Qualifier Value 'V. Send A' 'V. Send D'	Qualifier Value 'V. Send B'
`# MixpointMute example` `InterfaceName.Set('MixpointMute', 'On', {'Input': '1', 'Output': '1'})`			
Command	Value		

OutputAttenuation	-100 to 0 in steps of 0.1		
Qualifier Key **'Output'**	Qualifier Value '1' – '4'		
`# OutputAttenuation example` `InterfaceName.Set('OutputAttenuation', 0, {'Output': '1'})`			
Command **OutputMute**	Value 'On'	Value 'Off'	
Qualifier Key **'Output'**	Qualifier Value '1' – '4'		
`# OutputMute example` `InterfaceName.Set('OutputMute', 'On', {'Output': '1'})`			
Command **OutputPostmixerTrim**	Value -12 to 12 in steps of 0.1		
Qualifier Key **'Output'**	Qualifier Value '1' – '4'		
`# OutputPostmixerTrim example` `InterfaceName.Set('OutputPostmixerTrim', 12, {'Output': '1'})`			
Command **PremixerGain**	Value -100 to 12 in steps of 0.1		
Qualifier Key **'Input'**	Qualifier Value '1' – '6'		
`# PremixerGain example` `InterfaceName.Set('PremixerGain', 12, {'Input': '1'})`			
Command **PremixerMute**	Value 'On'	Value 'Off'	
Qualifier Key **'Input'**	Qualifier Value '1' – '6'		
`# PremixerMute example` `InterfaceName.Set('PremixerMute', 'On', {'Input': '1'})`			
Command **PresetRecall**	Value '1' – '32'		
`# PresetRecall example` `InterfaceName.Set('PresetRecall', '1')`			
Command **PresetSave** [1]	Value '1' – '32'		
`# PresetSave example` `InterfaceName.Set('PresetSave', '1')`			
Command **VirtualReturnGain**	Value -100 to 12 in steps of 0.1		
Qualifier Key **'Input'**	Qualifier Value 'A'	Qualifier Value 'B'	Qualifier Value 'C'

	'D'		

# VirtualReturnGain example 	
InterfaceName.Set('VirtualReturnGain', 12, {'Input': 'A'})			

Command **VirtualReturnMute**	Value 'On'	Value 'Off'	
Qualifier Key **'Input'**	Qualifier Value 'A' 'D'	Qualifier Value 'B'	Qualifier Value 'C'

# VirtualReturnMute example 	
InterfaceName.Set('VirtualReturnMute', 'On', {'Input': 'A'})			

[1] When saving a new preset, only the settings for Mic/Line Gain, Output Volume, and Mixpoints that don't include Virtual Buses are saved. When overwriting an existing preset, only the settings for the blocks that the existing preset used are saved.

[2] The following Mixpoint combinations are not supported: Input A to Output A, Input B to Output B, Input C to Output C, and Input D to Output D.

Status Available

For all commands, 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 **ConnectionStatus**	Value 'Connected'	Value 'Disconnected'

`# ConnectionStatus examples`
`Value = InterfaceName.ReadStatus('ConnectionStatus')`
`InterfaceName.SubscribeStatus('ConnectionStatus', None, FeedbackHandler)`		

Command **GroupMicLineInputGain**	Value -18 to 80 in steps of 0.1	
Qualifier Key **'Group'**	Qualifier Value '1' – '32'	

`# GroupMicLineInputGain examples`
`InterfaceName.Update('GroupMicLineInputGain', {'Group': '1'})`
`Value = InterfaceName.ReadStatus('GroupMicLineInputGain', {'Group': '1'})`
`InterfaceName.SubscribeStatus('GroupMicLineInputGain', None, FeedbackHandler)`		

Command **GroupMixpointGain**	Value -35 to 25 in steps of 0.1	
Qualifier Key **'Group'**	Qualifier Value '1' – '32'	

`# GroupMixpointGain examples`
`InterfaceName.Update('GroupMixpointGain', {'Group': '1'})`
`Value = InterfaceName.ReadStatus('GroupMixpointGain', {'Group': '1'})`
`InterfaceName.SubscribeStatus('GroupMixpointGain', None, FeedbackHandler)`		

Command **GroupMute**	Value 'On'	Value 'Off'
Qualifier Key **'Group'**	Qualifier Value '1' – '32'	

`# GroupMute examples`
`InterfaceName.Update('GroupMute', {'Group': '1'})`
`Value = InterfaceName.ReadStatus('GroupMute', {'Group': '1'})`		

```
InterfaceName.SubscribeStatus('GroupMute', None, FeedbackHandler)
```

Command	Value
GroupOutputAttenuation	-100 to 0 in steps of 0.1
Qualifier Key	Qualifier Value
'Group'	'1' – '32'

```
# GroupOutputAttenuation examples
InterfaceName.Update('GroupOutputAttenuation', {'Group': '1'})
Value = InterfaceName.ReadStatus('GroupOutputAttenuation', {'Group': '1'})
InterfaceName.SubscribeStatus('GroupOutputAttenuation', None, FeedbackHandler)
```

Command	Value
GroupPostmixerTrim	-12 to 12 in steps of 0.1
Qualifier Key	Qualifier Value
'Group'	'1' – '32'

```
# GroupPostmixerTrim examples
InterfaceName.Update('GroupPostmixerTrim', {'Group': '1'})
Value = InterfaceName.ReadStatus('GroupPostmixerTrim', {'Group': '1'})
InterfaceName.SubscribeStatus('GroupPostmixerTrim', None, FeedbackHandler)
```

Command	Value
GroupPremixerGain	-100 to 12 in steps of 0.1
Qualifier Key	Qualifier Value
'Group'	'1' – '32'

```
# GroupPremixerGain examples
InterfaceName.Update('GroupPremixerGain', {'Group': '1'})
Value = InterfaceName.ReadStatus('GroupPremixerGain', {'Group': '1'})
InterfaceName.SubscribeStatus('GroupPremixerGain', None, FeedbackHandler)
```

Command	Value
GroupVirtualReturnGain	-100 to 12 in steps of 0.1
Qualifier Key	Qualifier Value
'Group'	'1' – '32'

```
# GroupVirtualReturnGain examples
InterfaceName.Update('GroupVirtualReturnGain', {'Group': '1'})
Value = InterfaceName.ReadStatus('GroupVirtualReturnGain', {'Group': '1'})
InterfaceName.SubscribeStatus('GroupVirtualReturnGain', None, FeedbackHandler)
```

Command	Value
InputGain	-18 to 80 in steps of 0.1
Qualifier Key	Qualifier Value
'Input'	'1' – '6'

```
# InputGain examples
InterfaceName.Update('InputGain', {'Input': '1'})
Value = InterfaceName.ReadStatus('InputGain', {'Input': '1'})
InterfaceName.SubscribeStatus('InputGain', None, FeedbackHandler)
```

Command	Value	Value
InputMute	'On'	'Off'

Qualifier Key **'Input'**	Qualifier Value '1' – '6'		

`# InputMute examples`
`InterfaceName.Update('InputMute', {'Input': '1'})`
`Value = InterfaceName.ReadStatus('InputMute', {'Input': '1'})`
`InterfaceName.SubscribeStatus('InputMute', None, FeedbackHandler)`			

Command **MixpointGain**	Value -35 to 25 in steps of 0.1		
Qualifier Key **'Input'**	Qualifier Value '1' – '6' 'V. Return C'	Qualifier Value 'V. Return A' 'V. Return D'	Qualifier Value 'V. Return B'
Qualifier Key **'Output'**	Qualifier Value '1' – '4' 'V. Send C'	Qualifier Value 'V. Send A' 'V. Send D'	Qualifier Value 'V. Send B'

`# MixpointGain examples`
`InterfaceName.Update('MixpointGain', {'Input': '1', 'Output': '1'})`
`Value = InterfaceName.ReadStatus('MixpointGain', {'Input': '1', 'Output': '1'})`
`InterfaceName.SubscribeStatus('MixpointGain', None, FeedbackHandler)`			

Command **MixpointMute**	Value 'On'	Value 'Off'	
Qualifier Key **'Input'**	Qualifier Value '1' – '6' 'V. Return C'	Qualifier Value 'V. Return A' 'V. Return D'	Qualifier Value 'V. Return B'
Qualifier Key **'Output'**	Qualifier Value '1' – '4' 'V. Send C'	Qualifier Value 'V. Send A' 'V. Send D'	Qualifier Value 'V. Send B'

`# MixpointMute examples`
`InterfaceName.Update('MixpointMute', {'Input': '1', 'Output': '1'})`
`Value = InterfaceName.ReadStatus('MixpointMute', {'Input': '1', 'Output': '1'})`
`InterfaceName.SubscribeStatus('MixpointMute', None, FeedbackHandler)`			

Command **OutputAttenuation**	Value -100 to 0 in steps of 0.1		
Qualifier Key **'Output'**	Qualifier Value '1' – '4'		

`# OutputAttenuation examples`
`InterfaceName.Update('OutputAttenuation', {'Output': '1'})`
`Value = InterfaceName.ReadStatus('OutputAttenuation', {'Output': '1'})`
`InterfaceName.SubscribeStatus('OutputAttenuation', None, FeedbackHandler)`			

Command **OutputMute**	Value 'On'	Value 'Off'	
Qualifier Key **'Output'**	Qualifier Value '1' – '4'		
`# OutputMute examples`			

```
InterfaceName.Update('OutputMute', {'Output': '1'})
Value = InterfaceName.ReadStatus('OutputMute', {'Output': '1'})
InterfaceName.SubscribeStatus('OutputMute', None, FeedbackHandler)
```

Command	Value
OutputPostmixerTrim	-12 to 12 in steps of 0.1
Qualifier Key	**Qualifier Value**
'Output'	'1' – '4'

```
# OutputPostmixerTrim examples
InterfaceName.Update('OutputPostmixerTrim', {'Output': '1'})
Value = InterfaceName.ReadStatus('OutputPostmixerTrim', {'Output': '1'})
InterfaceName.SubscribeStatus('OutputPostmixerTrim', None, FeedbackHandler)
```

Command	Value
PartNumber	'String'

```
# PartNumber examples
InterfaceName.Update('PartNumber')
Value = InterfaceName.ReadStatus('PartNumber')
InterfaceName.SubscribeStatus('PartNumber', None, FeedbackHandler)
```

Command	Value
PremixerGain	-100 to 12 in steps of 0.1
Qualifier Key	**Qualifier Value**
'Input'	'1' – '6'

```
# PremixerGain examples
InterfaceName.Update('PremixerGain', {'Input': '1'})
Value = InterfaceName.ReadStatus('PremixerGain', {'Input': '1'})
InterfaceName.SubscribeStatus('PremixerGain', None, FeedbackHandler)
```

Command	Value	Value
PremixerMute	'On'	'Off'
Qualifier Key	**Qualifier Value**	
'Input'	'1' – '6'	

```
# PremixerMute examples
InterfaceName.Update('PremixerMute', {'Input': '1'})
Value = InterfaceName.ReadStatus('PremixerMute', {'Input': '1'})
InterfaceName.SubscribeStatus('PremixerMute', None, FeedbackHandler)
```

Command	Value
VirtualReturnGain	-100 to 12 in steps of 0.1

Qualifier Key	Qualifier Value	Qualifier Value	Qualifier Value
'Input'	'A'	'B'	'C'
	'D'		

```
# VirtualReturnGain examples
InterfaceName.Update('VirtualReturnGain', {'Input': 'A'})
Value = InterfaceName.ReadStatus('VirtualReturnGain', {'Input': 'A'})
InterfaceName.SubscribeStatus('VirtualReturnGain', None, FeedbackHandler)
```

Command	Value	Value
VirtualReturnMute	'On'	'Off'

Qualifier Key	Qualifier Value	Qualifier Value	Qualifier Value
'Input'	'A'	'B'	'C'
	'D'		

```
# VirtualReturnMute examples
InterfaceName.Update('VirtualReturnMute', {'Input': 'A'})
Value = InterfaceName.ReadStatus('VirtualReturnMute', {'Input': 'A'})
InterfaceName.SubscribeStatus('VirtualReturnMute', None, FeedbackHandler)
```

Cable and Adapter Requirements

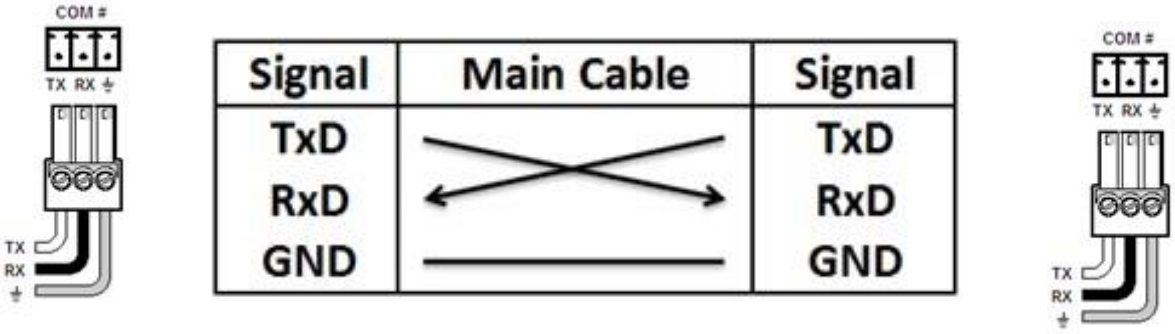
Captive Screw to Captive Screw RS-232 Serial Cable

Notes for the Device

Serial communication

Port Type:	RS-232	**Parity:**	None
Baud Rate:	38400	**Stop Bits:**	One
Data Bits:	8	**Flow Control:**	None

Pin Assignments Diagram



Network communication

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

Port Type:	Ethernet
Default Port:	23
Logon Credentials Supported:	Yes
Multi-Connection Capabilities:	No
Port Changeability:	Yes

Ethernet Module Configuration Description

Please refer to user manual for settings and changes to the network communication

Notes for the Device

Appendix A. Set Commands

Group Mic/Line Input Gain -18 Group 1	wd1*-00180grpm\x0D\x0A
Group Mic/Line Input Gain -18 Group 32	wd32*-00180grpm\x0D\x0A
Group Mic/Line Input Gain 80 Group 1	wd1*+00800grpm\x0D\x0A
Group Mic/Line Input Gain 80 Group 32	wd32*+00800grpm\x0D\x0A
Group Mix-point Gain 25 Group 1	wd1*+00250grpm\x0D\x0A
Group Mix-point Gain 25 Group 32	wd32*+00250grpm\x0D\x0A
Group Mix-point Gain -35 Group 1	wd1*-00350grpm\x0D\x0A
Group Mix-point Gain -35 Group 32	wd32*-00350grpm\x0D\x0A
Group Mute Off Group 1	wd1*0grpm\x0D\x0A
Group Mute Off Group 32	wd32*0grpm\x0D\x0A
Group Mute On Group 1	wd1*1grpm\x0D\x0A
Group Mute On Group 32	wd32*1grpm\x0D\x0A
Group Output Attenuation 0 Group 1	wd1*+00000grpm\x0D\x0A
Group Output Attenuation 0 Group 32	wd32*+00000grpm\x0D\x0A
Group Output Attenuation -100 Group 1	wd1*-01000grpm\x0D\x0A
Group Output Attenuation -100 Group 32	wd32*-01000grpm\x0D\x0A
Group Post-mixer Trim 12 Group 1	wd1*+00120grpm\x0D\x0A
Group Post-mixer Trim -12 Group 1	wd1*-00120grpm\x0D\x0A
Group Post-mixer Trim 12 Group 32	wd32*+00120grpm\x0D\x0A
Group Post-mixer Trim -12 Group 32	wd32*-00120grpm\x0D\x0A
Group Pre-mixer Gain -100 Group 1	wd1*-01000grpm\x0D\x0A
Group Pre-mixer Gain -100 Group 32	wd32*-01000grpm\x0D\x0A
Group Pre-mixer Gain 12 Group 1	wd1*+00120grpm\x0D\x0A
Group Pre-mixer Gain 12 Group 32	wd32*+00120grpm\x0D\x0A
Group Virtual Return Gain -100 Group 1	wd1*-01000grpm\x0D\x0A
Group Virtual Return Gain -100 Group 32	wd32*-01000grpm\x0D\x0A
Group Virtual Return Gain 12 Group 1	wd1*+00120grpm\x0D\x0A
Group Virtual Return Gain 12 Group 32	wd32*+00120grpm\x0D\x0A
Input Gain -18 Input 1	wG40000*01868AU\x0D\x0A
Input Gain -18 Input 6	wG40005*01868AU\x0D\x0A
Input Gain 80 Input 1	wG40000*02848AU\x0D\x0A
Input Gain 80 Input 6	wG40005*02848AU\x0D\x0A
Input Mute Off Input 1	wM40000*0AU\x0D\x0A
Input Mute Off Input 6	wM40005*0AU\x0D\x0A
Input Mute On Input 1	wM40000*1AU\x0D\x0A
Input Mute On Input 6	wM40005*1AU\x0D\x0A
Mix-point Gain 25 Input 1 Output 1	wG20000*02298AU\x0D\x0A
Mix-point Gain 25 Input 1 Output 4	wG20003*02298AU\x0D\x0A
Mix-point Gain 25 Input 1 Output V. Send A	wG20004*02298AU\x0D\x0A
Mix-point Gain 25 Input 1 Output V. Send B	wG20005*02298AU\x0D\x0A
Mix-point Gain 25 Input 1 Output V. Send C	wG20006*02298AU\x0D\x0A

Mix-point Gain 25 Input 1 Output V. Send D	wG20007*02298AU\x0D\x0A
Mix-point Gain 25 Input 6 Output 1	wG20500*02298AU\x0D\x0A
Mix-point Gain 25 Input 6 Output 4	wG20503*02298AU\x0D\x0A
Mix-point Gain 25 Input 6 Output V. Send A	wG20504*02298AU\x0D\x0A
Mix-point Gain 25 Input 6 Output V. Send B	wG20505*02298AU\x0D\x0A
Mix-point Gain 25 Input 6 Output V. Send C	wG20506*02298AU\x0D\x0A
Mix-point Gain 25 Input 6 Output V. Send D	wG20507*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return A Output 1	wG20600*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return A Output 4	wG20603*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return A Output V. Send A	wG20604*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return A Output V. Send B	wG20605*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return A Output V. Send C	wG20606*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return A Output V. Send D	wG20607*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return B Output 1	wG20700*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return B Output 4	wG20703*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return B Output V. Send A	wG20704*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return B Output V. Send B	wG20705*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return B Output V. Send C	wG20706*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return B Output V. Send D	wG20707*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return C Output 1	wG20800*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return C Output 4	wG20803*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return C Output V. Send A	wG20804*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return C Output V. Send B	wG20805*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return C Output V. Send C	wG20806*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return C Output V. Send D	wG20807*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return D Output 1	wG20900*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return D Output 4	wG20903*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return D Output V. Send A	wG20904*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return D Output V. Send B	wG20905*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return D Output V. Send C	wG20906*02298AU\x0D\x0A
Mix-point Gain 25 Input V. Return D Output V. Send D	wG20907*02298AU\x0D\x0A
Mix-point Gain -35 Input 1 Output 1	wG20000*01698AU\x0D\x0A
Mix-point Gain -35 Input 1 Output 4	wG20003*01698AU\x0D\x0A
Mix-point Gain -35 Input 1 Output V. Send A	wG20004*01698AU\x0D\x0A
Mix-point Gain -35 Input 1 Output V. Send B	wG20005*01698AU\x0D\x0A
Mix-point Gain -35 Input 1 Output V. Send C	wG20006*01698AU\x0D\x0A
Mix-point Gain -35 Input 1 Output V. Send D	wG20007*01698AU\x0D\x0A
Mix-point Gain -35 Input 6 Output 1	wG20500*01698AU\x0D\x0A
Mix-point Gain -35 Input 6 Output 4	wG20503*01698AU\x0D\x0A
Mix-point Gain -35 Input 6 Output V. Send A	wG20504*01698AU\x0D\x0A
Mix-point Gain -35 Input 6 Output V. Send B	wG20505*01698AU\x0D\x0A
Mix-point Gain -35 Input 6 Output V. Send C	wG20506*01698AU\x0D\x0A
Mix-point Gain -35 Input 6 Output V. Send D	wG20507*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return A Output 1	wG20600*01698AU\x0D\x0A

Mix-point Gain -35 Input V. Return A Output 4	wG20603*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return A Output V. Send A	wG20604*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return A Output V. Send B	wG20605*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return A Output V. Send C	wG20606*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return A Output V. Send D	wG20607*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return B Output 1	wG20700*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return B Output 4	wG20703*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return B Output V. Send A	wG20704*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return B Output V. Send B	wG20705*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return B Output V. Send C	wG20706*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return B Output V. Send D	wG20707*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return C Output 1	wG20800*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return C Output 4	wG20803*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return C Output V. Send A	wG20804*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return C Output V. Send B	wG20805*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return C Output V. Send C	wG20806*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return C Output V. Send D	wG20807*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return D Output 1	wG20900*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return D Output 4	wG20903*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return D Output V. Send A	wG20904*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return D Output V. Send B	wG20905*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return D Output V. Send C	wG20906*01698AU\x0D\x0A
Mix-point Gain -35 Input V. Return D Output V. Send D	wG20907*01698AU\x0D\x0A
Mix-point Mute Off Input 1 Output 1	wM20000*0AU\x0D\x0A
Mix-point Mute Off Input 1 Output 4	wM20003*0AU\x0D\x0A
Mix-point Mute Off Input 1 Output V. Send A	wM20004*0AU\x0D\x0A
Mix-point Mute Off Input 1 Output V. Send B	wM20005*0AU\x0D\x0A
Mix-point Mute Off Input 1 Output V. Send C	wM20006*0AU\x0D\x0A
Mix-point Mute Off Input 1 Output V. Send D	wM20007*0AU\x0D\x0A
Mix-point Mute Off Input 6 Output 1	wM20500*0AU\x0D\x0A
Mix-point Mute Off Input 6 Output 4	wM20503*0AU\x0D\x0A
Mix-point Mute Off Input 6 Output V. Send A	wM20504*0AU\x0D\x0A
Mix-point Mute Off Input 6 Output V. Send B	wM20505*0AU\x0D\x0A
Mix-point Mute Off Input 6 Output V. Send C	wM20506*0AU\x0D\x0A
Mix-point Mute Off Input 6 Output V. Send D	wM20507*0AU\x0D\x0A
Mix-point Mute Off Input V. Return A Output 1	wM20600*0AU\x0D\x0A
Mix-point Mute Off Input V. Return A Output 4	wM20603*0AU\x0D\x0A
Mix-point Mute Off Input V. Return A Output V. Send A	wM20604*0AU\x0D\x0A
Mix-point Mute Off Input V. Return A Output V. Send B	wM20605*0AU\x0D\x0A
Mix-point Mute Off Input V. Return A Output V. Send C	wM20606*0AU\x0D\x0A
Mix-point Mute Off Input V. Return A Output V. Send D	wM20607*0AU\x0D\x0A
Mix-point Mute Off Input V. Return B Output 1	wM20700*0AU\x0D\x0A
Mix-point Mute Off Input V. Return B Output 4	wM20703*0AU\x0D\x0A
Mix-point Mute Off Input V. Return B Output V. Send A	wM20704*0AU\x0D\x0A

Mix-point Mute Off Input V. Return B Output V. Send B	wM20705*0AU\x0D\x0A
Mix-point Mute Off Input V. Return B Output V. Send C	wM20706*0AU\x0D\x0A
Mix-point Mute Off Input V. Return B Output V. Send D	wM20707*0AU\x0D\x0A
Mix-point Mute Off Input V. Return C Output 1	wM20800*0AU\x0D\x0A
Mix-point Mute Off Input V. Return C Output 4	wM20803*0AU\x0D\x0A
Mix-point Mute Off Input V. Return C Output V. Send A	wM20804*0AU\x0D\x0A
Mix-point Mute Off Input V. Return C Output V. Send B	wM20805*0AU\x0D\x0A
Mix-point Mute Off Input V. Return C Output V. Send C	wM20806*0AU\x0D\x0A
Mix-point Mute Off Input V. Return C Output V. Send D	wM20807*0AU\x0D\x0A
Mix-point Mute Off Input V. Return D Output 1	wM20900*0AU\x0D\x0A
Mix-point Mute Off Input V. Return D Output 4	wM20903*0AU\x0D\x0A
Mix-point Mute Off Input V. Return D Output V. Send A	wM20904*0AU\x0D\x0A
Mix-point Mute Off Input V. Return D Output V. Send B	wM20905*0AU\x0D\x0A
Mix-point Mute Off Input V. Return D Output V. Send C	wM20906*0AU\x0D\x0A
Mix-point Mute Off Input V. Return D Output V. Send D	wM20907*0AU\x0D\x0A
Mix-point Mute On Input 1 Output 1	wM20000*1AU\x0D\x0A
Mix-point Mute On Input 1 Output 4	wM20003*1AU\x0D\x0A
Mix-point Mute On Input 1 Output V. Send A	wM20004*1AU\x0D\x0A
Mix-point Mute On Input 1 Output V. Send B	wM20005*1AU\x0D\x0A
Mix-point Mute On Input 1 Output V. Send C	wM20006*1AU\x0D\x0A
Mix-point Mute On Input 1 Output V. Send D	wM20007*1AU\x0D\x0A
Mix-point Mute On Input 6 Output 1	wM20500*1AU\x0D\x0A
Mix-point Mute On Input 6 Output 4	wM20503*1AU\x0D\x0A
Mix-point Mute On Input 6 Output V. Send A	wM20504*1AU\x0D\x0A
Mix-point Mute On Input 6 Output V. Send B	wM20505*1AU\x0D\x0A
Mix-point Mute On Input 6 Output V. Send C	wM20506*1AU\x0D\x0A
Mix-point Mute On Input 6 Output V. Send D	wM20507*1AU\x0D\x0A
Mix-point Mute On Input V. Return A Output 1	wM20600*1AU\x0D\x0A
Mix-point Mute On Input V. Return A Output 4	wM20603*1AU\x0D\x0A
Mix-point Mute On Input V. Return A Output V. Send A	wM20604*1AU\x0D\x0A
Mix-point Mute On Input V. Return A Output V. Send B	wM20605*1AU\x0D\x0A
Mix-point Mute On Input V. Return A Output V. Send C	wM20606*1AU\x0D\x0A
Mix-point Mute On Input V. Return A Output V. Send D	wM20607*1AU\x0D\x0A
Mix-point Mute On Input V. Return B Output 1	wM20700*1AU\x0D\x0A
Mix-point Mute On Input V. Return B Output 4	wM20703*1AU\x0D\x0A
Mix-point Mute On Input V. Return B Output V. Send A	wM20704*1AU\x0D\x0A
Mix-point Mute On Input V. Return B Output V. Send B	wM20705*1AU\x0D\x0A
Mix-point Mute On Input V. Return B Output V. Send C	wM20706*1AU\x0D\x0A
Mix-point Mute On Input V. Return B Output V. Send D	wM20707*1AU\x0D\x0A
Mix-point Mute On Input V. Return C Output 1	wM20800*1AU\x0D\x0A
Mix-point Mute On Input V. Return C Output 4	wM20803*1AU\x0D\x0A
Mix-point Mute On Input V. Return C Output V. Send A	wM20804*1AU\x0D\x0A
Mix-point Mute On Input V. Return C Output V. Send B	wM20805*1AU\x0D\x0A
Mix-point Mute On Input V. Return C Output V. Send C	wM20806*1AU\x0D\x0A

Mix-point Mute On Input V. Return C Output V. Send D	wM20807*1AU\x0D\x0A
Mix-point Mute On Input V. Return D Output 1	wM20900*1AU\x0D\x0A
Mix-point Mute On Input V. Return D Output 4	wM20903*1AU\x0D\x0A
Mix-point Mute On Input V. Return D Output V. Send A	wM20904*1AU\x0D\x0A
Mix-point Mute On Input V. Return D Output V. Send B	wM20905*1AU\x0D\x0A
Mix-point Mute On Input V. Return D Output V. Send C	wM20906*1AU\x0D\x0A
Mix-point Mute On Input V. Return D Output V. Send D	wM20907*1AU\x0D\x0A
Output Attenuation 0 Output 1	wG60000*02048AU\x0D\x0A
Output Attenuation 0 Output 4	wG60003*02048AU\x0D\x0A
Output Attenuation -100 Output 1	wG60000*01048AU\x0D\x0A
Output Attenuation -100 Output 4	wG60003*01048AU\x0D\x0A
Output Mute Off Output 1	wM60000*0AU\x0D\x0A
Output Mute Off Output 4	wM60003*0AU\x0D\x0A
Output Mute On Output 1	wM60000*1AU\x0D\x0A
Output Mute On Output 4	wM60003*1AU\x0D\x0A
Output Post-mixer Trim 12 Output 1	wG60100*02168AU\x0D\x0A
Output Post-mixer Trim -12 Output 1	wG60100*01928AU\x0D\x0A
Output Post-mixer Trim 12 Output 4	wG60103*02168AU\x0D\x0A
Output Post-mixer Trim -12 Output 4	wG60103*01928AU\x0D\x0A
Pre-mixer Gain -100 Input 1	wG40100*01048AU\x0D\x0A
Pre-mixer Gain -100 Input 6	wG40105*01048AU\x0D\x0A
Pre-mixer Gain 12 Input 1	wG40100*02168AU\x0D\x0A
Pre-mixer Gain 12 Input 6	wG40105*02168AU\x0D\x0A
Pre-mixer Mute Off Input 1	wM40100*0AU\x0D\x0A
Pre-mixer Mute Off Input 6	wM40105*0AU\x0D\x0A
Pre-mixer Mute On Input 1	wM40100*1AU\x0D\x0A
Pre-mixer Mute On Input 6	wM40105*1AU\x0D\x0A
Preset Recall 1	1.
Preset Recall 32	32.
Preset Save 1	1,
Preset Save 32	32,
Virtual Return Gain -100 Input A	wG50000*01048AU\x0D\x0A
Virtual Return Gain -100 Input B	wG50001*01048AU\x0D\x0A
Virtual Return Gain -100 Input C	wG50002*01048AU\x0D\x0A
Virtual Return Gain -100 Input D	wG50003*01048AU\x0D\x0A
Virtual Return Gain 12 Input A	wG50000*02168AU\x0D\x0A
Virtual Return Gain 12 Input B	wG50001*02168AU\x0D\x0A
Virtual Return Gain 12 Input C	wG50002*02168AU\x0D\x0A
Virtual Return Gain 12 Input D	wG50003*02168AU\x0D\x0A
Virtual Return Mute Off Input A	wM50000*0AU\x0D\x0A
Virtual Return Mute Off Input B	wM50001*0AU\x0D\x0A
Virtual Return Mute Off Input C	wM50002*0AU\x0D\x0A
Virtual Return Mute Off Input D	wM50003*0AU\x0D\x0A
Virtual Return Mute On Input A	wM50000*1AU\x0D\x0A

Virtual Return Mute On Input B	wM50001*1AU\x0D\x0A
Virtual Return Mute On Input C	wM50002*1AU\x0D\x0A
Virtual Return Mute On Input D	wM50003*1AU\x0D\x0A

Appendix B. Query Commands

Group Mic/Line Input Gain Group 1	wd1grpm\x0D\x0A
Group Mic/Line Input Gain Group 32	wd32grpm\x0D\x0A
Group Mix-point Gain Group 1	wd1grpm\x0D\x0A
Group Mix-point Gain Group 32	wd32grpm\x0D\x0A
Group Mute Group 1	wd1grpm\x0D\x0A
Group Mute Group 32	wd32grpm\x0D\x0A
Group Output Attenuation Group 1	wd1grpm\x0D\x0A
Group Output Attenuation Group 32	wd32grpm\x0D\x0A
Group Post-mixer Trim Group 1	wd1grpm\x0D\x0A
Group Post-mixer Trim Group 32	wd32grpm\x0D\x0A
Group Pre-mixer Gain Group 1	wd1grpm\x0D\x0A
Group Pre-mixer Gain Group 32	wd32grpm\x0D\x0A
Group Virtual Return Gain Group 1	wd1grpm\x0D\x0A
Group Virtual Return Gain Group 32	wd32grpm\x0D\x0A
Input Gain Input 1	wG40000AU\x0D\x0A
Input Gain Input 6	wG40005AU\x0D\x0A
Input Mute Input 1	wM40000*AU\x0D\x0A
Input Mute Input 6	wM40005*AU\x0D\x0A
Mix-point Gain Input 1 Output 1	wG20000AU\x0D\x0A
Mix-point Gain Input 1 Output 4	wG20003AU\x0D\x0A
Mix-point Gain Input 1 Output V. Send A	wG20004AU\x0D\x0A
Mix-point Gain Input 1 Output V. Send B	wG20005AU\x0D\x0A
Mix-point Gain Input 1 Output V. Send C	wG20006AU\x0D\x0A
Mix-point Gain Input 1 Output V. Send D	wG20007AU\x0D\x0A
Mix-point Gain Input 6 Output 1	wG20500AU\x0D\x0A
Mix-point Gain Input 6 Output 4	wG20503AU\x0D\x0A
Mix-point Gain Input 6 Output V. Send A	wG20504AU\x0D\x0A
Mix-point Gain Input 6 Output V. Send B	wG20505AU\x0D\x0A
Mix-point Gain Input 6 Output V. Send C	wG20506AU\x0D\x0A
Mix-point Gain Input 6 Output V. Send D	wG20507AU\x0D\x0A
Mix-point Gain Input V. Return A Output 1	wG20600AU\x0D\x0A
Mix-point Gain Input V. Return A Output 4	wG20603AU\x0D\x0A
Mix-point Gain Input V. Return A Output V. Send A	wG20604AU\x0D\x0A
Mix-point Gain Input V. Return A Output V. Send B	wG20605AU\x0D\x0A
Mix-point Gain Input V. Return A Output V. Send C	wG20606AU\x0D\x0A
Mix-point Gain Input V. Return A Output V. Send D	wG20607AU\x0D\x0A
Mix-point Gain Input V. Return B Output 1	wG20700AU\x0D\x0A
Mix-point Gain Input V. Return B Output 4	wG20703AU\x0D\x0A

Mix-point Gain Input V. Return B Output V. Send A	wG20704AU\x0D\x0A
Mix-point Gain Input V. Return B Output V. Send B	wG20705AU\x0D\x0A
Mix-point Gain Input V. Return B Output V. Send C	wG20706AU\x0D\x0A
Mix-point Gain Input V. Return B Output V. Send D	wG20707AU\x0D\x0A
Mix-point Gain Input V. Return C Output 1	wG20800AU\x0D\x0A
Mix-point Gain Input V. Return C Output 4	wG20803AU\x0D\x0A
Mix-point Gain Input V. Return C Output V. Send A	wG20804AU\x0D\x0A
Mix-point Gain Input V. Return C Output V. Send B	wG20805AU\x0D\x0A
Mix-point Gain Input V. Return C Output V. Send C	wG20806AU\x0D\x0A
Mix-point Gain Input V. Return C Output V. Send D	wG20807AU\x0D\x0A
Mix-point Gain Input V. Return D Output 1	wG20900AU\x0D\x0A
Mix-point Gain Input V. Return D Output 4	wG20903AU\x0D\x0A
Mix-point Gain Input V. Return D Output V. Send A	wG20904AU\x0D\x0A
Mix-point Gain Input V. Return D Output V. Send B	wG20905AU\x0D\x0A
Mix-point Gain Input V. Return D Output V. Send C	wG20906AU\x0D\x0A
Mix-point Gain Input V. Return D Output V. Send D	wG20907AU\x0D\x0A
Mix-point Mute Input 1 Output 1	wM20000AU\x0D\x0A
Mix-point Mute Input 1 Output 4	wM20003AU\x0D\x0A
Mix-point Mute Input 1 Output V. Send A	wM20004AU\x0D\x0A
Mix-point Mute Input 1 Output V. Send B	wM20005AU\x0D\x0A
Mix-point Mute Input 1 Output V. Send C	wM20006AU\x0D\x0A
Mix-point Mute Input 1 Output V. Send D	wM20007AU\x0D\x0A
Mix-point Mute Input 6 Output 1	wM20500AU\x0D\x0A
Mix-point Mute Input 6 Output 4	wM20503AU\x0D\x0A
Mix-point Mute Input 6 Output V. Send A	wM20504AU\x0D\x0A
Mix-point Mute Input 6 Output V. Send B	wM20505AU\x0D\x0A
Mix-point Mute Input 6 Output V. Send C	wM20506AU\x0D\x0A
Mix-point Mute Input 6 Output V. Send D	wM20507AU\x0D\x0A
Mix-point Mute Input V. Return A Output 1	wM20600AU\x0D\x0A
Mix-point Mute Input V. Return A Output 4	wM20603AU\x0D\x0A
Mix-point Mute Input V. Return A Output V. Send A	wM20604AU\x0D\x0A
Mix-point Mute Input V. Return A Output V. Send B	wM20605AU\x0D\x0A
Mix-point Mute Input V. Return A Output V. Send C	wM20606AU\x0D\x0A
Mix-point Mute Input V. Return A Output V. Send D	wM20607AU\x0D\x0A
Mix-point Mute Input V. Return B Output 1	wM20700AU\x0D\x0A
Mix-point Mute Input V. Return B Output 4	wM20703AU\x0D\x0A
Mix-point Mute Input V. Return B Output V. Send A	wM20704AU\x0D\x0A
Mix-point Mute Input V. Return B Output V. Send B	wM20705AU\x0D\x0A
Mix-point Mute Input V. Return B Output V. Send C	wM20706AU\x0D\x0A
Mix-point Mute Input V. Return B Output V. Send D	wM20707AU\x0D\x0A
Mix-point Mute Input V. Return C Output 1	wM20800AU\x0D\x0A
Mix-point Mute Input V. Return C Output 4	wM20803AU\x0D\x0A
Mix-point Mute Input V. Return C Output V. Send A	wM20804AU\x0D\x0A
Mix-point Mute Input V. Return C Output V. Send B	wM20805AU\x0D\x0A

Mix-point Mute Input V. Return C Output V. Send C	wM20806AU\x0D\x0A
Mix-point Mute Input V. Return C Output V. Send D	wM20807AU\x0D\x0A
Mix-point Mute Input V. Return D Output 1	wM20900AU\x0D\x0A
Mix-point Mute Input V. Return D Output 4	wM20903AU\x0D\x0A
Mix-point Mute Input V. Return D Output V. Send A	wM20904AU\x0D\x0A
Mix-point Mute Input V. Return D Output V. Send B	wM20905AU\x0D\x0A
Mix-point Mute Input V. Return D Output V. Send C	wM20906AU\x0D\x0A
Mix-point Mute Input V. Return D Output V. Send D	wM20907AU\x0D\x0A
Output Attenuation Output 1	wG60000AU\x0D\x0A
Output Attenuation Output 4	wG60003AU\x0D\x0A
Output Mute Output 1	wM60000*AU\x0D\x0A
Output Mute Output 4	wM60003*AU\x0D\x0A
Output Post-mixer Trim Output 1	wG60100AU\x0D\x0A
Output Post-mixer Trim Output 4	wG60103AU\x0D\x0A
Pre-mixer Gain Input 1	wG40100AU\x0D\x0A
Pre-mixer Gain Input 6	wG40105AU\x0D\x0A
Pre-mixer Mute Input 1	wM40100*AU\x0D\x0A
Pre-mixer Mute Input 6	wM40105*AU\x0D\x0A
Virtual Return Gain Input A	wG50000AU\x0D\x0A
Virtual Return Gain Input B	wG50001AU\x0D\x0A
Virtual Return Gain Input C	wG50002AU\x0D\x0A
Virtual Return Gain Input D	wG50003AU\x0D\x0A
Virtual Return Mute Input A	wM50000AU\x0D\x0A
Virtual Return Mute Input B	wM50001AU\x0D\x0A
Virtual Return Mute Input C	wM50002AU\x0D\x0A
Virtual Return Mute Input D	wM50003AU\x0D\x0A