



OmniStream™ Multi-Channel Dante Networked Audio Interface

Application Programming Interface

Version Information

Version	Release Date	Notes
1	04/18	Initial release

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Commands

Unit

Commands are sent using UDP on port 49494.

Each command is case sensitive, do not change: capitalization, spacing, or lettering.

Each command is terminated with a carriage return.

If the command fails or is incorrect the feedback should be "NACK" followed by the command.

Command	Description
GetMAC	Displays the MAC address of the unit
HostName	Changes the host name of the unit
IPDHCP	Sets the unit into DHCP mode
IPStatic	Sets the unit into a static IP
Model	Displays the unit SKU
Mreset	Sets the unit back to factory default
Reboot	Restarts the unit
Version	Displays the current firmware version of the unit

GetMAC

Displays the MAC address of the unit.

Syntax

```
GetMAC
```

Example

```
GetMAC
```

Feedback

```
ACK XX:XX:XX:XX:XX:XX
```

HostName

Changes the host name of the unit.

Syntax

```
HostName X
```

Parameter	Description	Restrictions
X	Unit Name	A-Z, a-z, 0-9, and -

Example

```
HostName Atlona238-B
```

Feedback

```
ACK HostName = Atlona238-B, Reboot necessary to apply
```

IPDHCP

Sets the unit into DHCP mode.

Syntax

```
IPDHCP
```

Example

```
IPDHCP
```

Feedback

```
ACK IPDHCP OK, Reboot necessary to apply
```

IPStatic

Sets the unit into a static IP.

Syntax

```
IPStatic X Y Z A
```

Parameter	Description	Example
X	IP address	X.X.X.X e.g. 192.168.10.222
Y	Subnet mask	X.X.X.X e.g. 255.255.255.0
Z	Gateway	X.X.X.X e.g. 192.168.10.1
A	DNS	8.8.8.8

Example

```
IPStatic 10.0.1.231 255.255.255.0 10.0.1.1 8.8.8.8
```

Feedback

```
ACK IPStatic 10.0.1.231 255.255.255.0 10.0.1.1 8.8.8.8,  
Reboot necessary to apply
```

Model

Displays the unit SKU.

Syntax

```
Model
```

Example

```
Model
```

Feedback

```
ACK Model = AT-OMNI-238
```

Mreset

Sets the unit back to factory default - Host name returns to default, IP mode is set to DHCP, all channels are disconnected, audio channels are set to 0 dB, and mute is set to off.

Syntax

```
Mreset
```

Example

```
Mreset
```

Feedback

```
ACK Mreset
```

Reboot

Restarts the unit

Syntax

```
Reboot
```

Example

```
Reboot
```

Feedback

```
ACK Reboot
```

Version

Displays the current firmware version of the unit.

Syntax

Version

Example

Version

Feedback

ACK Version 1.0.0

Audio

Commands are sent using UDP on port 49494

Each command is case sensitive, do not change: capitalization, spacing, or lettering

Each command is terminated with a carriage return

If the command fails or is incorrect the feedback should be "NACK" followed by the command.

Command	Description
ConnectAES	Sets the current channel to AES and routes to the specified stream
ConnectDANTE	Set the channel to Dante and routes to the specified stream
ConnectStatus	Displays the current status of the audio streams
Disconnect	Disconnects the current audio stream
InputLevel	Displays the input level of the audio streams
QUERY	Returns the status of the unit and audio volume levels
VOUT	Set the volume of the specified output
VOUTMute	Mutes the volume of the specified output

ConnectAES

Sets the current channel to AES and routes to the specified stream. The second argument specifies the audio channel number. If the input is stereo, then either the left channel (1) or right channel (2) must be specified, separately.

The following configures the AT-OMNI-238 to subscribe to a stereo AES67 stream. Note that the left and right channel must be specified in separate commands:

```
ConnectAES "Laptop" 1:11 // maps AES67 left audio channel to AT-OMNI-238 output channel 11.
ConnectAES "Laptop" 2:12 // maps AES67 right audio channel to AT-OMNI-238 output channel 12.
```

Syntax

```
ConnectAES "X" Y:Z
```

Parameter	Description	Example
X	Stream name	e.g. Atlona Omni
Y	Channel number	e.g. 2
Z	238 output channel	e.g. 12

Example

```
ConnectAES "OMNI 512" 2:8
```

Feedback

```
ACK ConnectAES "OMNI512" 2:8
```

ConnectDANTE

Set the channel to Dante and routes to the specified stream.

Syntax

```
ConnectDANTE "X@Y" Z
```

Parameter	Description	Example
X	Dante device name	e.g. OMNI232
Y	Stream name	e.g. LINE IN 1
Z	238 channel number	1 - 16 e.g. 9

Example

```
ConnectDANTE "OMNI232@LINE IN 1" 9
```

Feedback

```
ACK ConnectDANTE "OMNI232@LINE IN 1" 9
```

ConnectStatus

UDP message sent by the AT-OMNI-238 to multicast 224.0.0.240:49494 that contains feedback of route changes made using ConnectAES or ConnectDANTE commands.

Syntax

```
ConnectStatus X Y Z
```

Parameter	Description	Range
X	Channel number	1 - 16
Y	Connection type	AES67, DANTE
Z	Stream information	String value

Feedback

ConnectStatus 9 DANTE "OMNI232@LINE IN 1"



NOTE: Any changes made by outside applications (e.g. Dante Controller) will not be reflected in the status feedback.

Disconnect

Disconnects the current audio stream.

Syntax

```
Disconnect X
```

Parameter	Description	Range
X	Channel number	1 - 16

Example

Disconnect 9

Feedback

ACK Disconnect 5

InputLevel

Displays the input level of the audio streams.

Syntax

InputLevel **X**

Parameter	Description	Range
	Leave blank for all channel status	
X	Channel number	1 - 16

Example

InputLevel

Feedback

ACK InputLevel

[1]: 30.2

[2]: 0

[3]: 0

[4]: 26.5

[5]: 34.5

[6]: 45.3

[7]: CLIP

[8]: 0

[9]: 19.3

[10]: MUTE

[11]: 24.5

[12]: 74.5

[13]: 17.4

[14]: 69.4

[15]: 0

[16]: 38.5

InputLevel 4

ACK InputLevel 4 26.5



NOTE: Command is updated every 100ms, commands sent faster than 100ms may receive the same feedback.



NOTE: CLIP indicates that the audio of that Input channel is clipped. MUTE indicates that audio is: muted, not routed, or missing.

QUERY

Returns the status of the unit, audio volume levels, and mute state.

Syntax

QUERY X

Parameter	Description	Range
	Leave blank for all channel status	
X	Channel number	1 - 16

Example

QUERY

Feedback

ACK QUERY

[1]: -10 0

[2]: -10 0

[3]: -10 0

[4]: -10 0

[5]: -10 0

[6]: -10 0

[7]: -10 0

[8]: -10 0

[9]: -10 1

[10]: -10 0

[11]: -10 0

[12]: -10 0

[13]: -10 0

[14]: -10 0

[15]: -10 0

[16]: -10 0

HostName: "Atlona238-B"

IP: 10.0.1.231 255.255.255.0 10.0.1.1 8.8.8.8

QUERY 9

ACK QUERY 9 -10 1



NOTE: The feedback will display channel name, volume level, and then audio mute status (0 is unmuted, 1 is muted).

VOUT

Adjusts the volume level of the output channels.

Syntax

```
VOUT X Y
```

Parameter	Description	Range
X	Channel	1 - 16
Y	Level	-70 to 0

Example

```
VOUT 3 -30
```

Feedback

```
ACK VOUT 3 -30
```

VOU TMute

Mutes/unmutes the output audio channels.

Syntax

```
VOU TMute X Y
```

Parameter	Description	Range
X	Channel	1 - 16
Y	State	0 (off), 1 (on)

Example

```
VOU TMute 0 1
```

Feedback

```
ACK VOU TMute 0 1
```

