AMP-2120-DNT API

AMP-2120-DNT

Application Programming Interface

Document Revision	v1.0
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Supported Firmware	Refer to Supported Product Firmware/Software for details.

Table of Contents

Overview

The following contains the connection and commands to control the AMP-2120-DNT By following the content contained in this document, the amplifier can be controlled and configured via a 3 rd party IP control system.

IMPORTANT NOTE!

Due to differences between model versions within a series, some commands have different parameters based on the model and version. These differences are noted where applicable and should be followed as sending an incorrect parameter may cause the unit to lock up and become inoperative.

Supported Product Firmware/Software

The following products and firmware versions are supported by this version of the API. The firmware versions listed are the minimum supported at time of publication; firmware may be higher except where otherwise noted.

Product	Status Since Last Doc Rev	Supported Product Versions
AMP-2120-DNT	added	v1 or higher

Before You Begin

Verify that the following items are on hand and that all documentation is reviewed before continuing:

- Configured and Operational AMP-2120-DNT ☐
  Refer to Supported Product Firmware/Software for a complete list of supported products and versions.
- Control System and Control System Documentation ☐
- PC or Mac for configuring product and telnet communications ☐
- Network Connection with Network Passwords ☐
- Current Product Firmware (if available), Software, and Documentation downloaded from WyreStorm.com ☐

Connections

IP Settings

Default IP Address	DHCP by default
Default IP Port	23

Web UI Access

1. Connect the matrix to the same network as a PC.
2. Set your IP address in the same range as the amplifier
3. Open a web browser and enter the IP Address of the amplifier.
4. Enter the password for the amplifier. The default password is: admin.

IP Address Notes

- The installer password and general password are the same by default. WyreStorm recommends changing the password for installer login to avoid any unwanted changes being made to the configuration.

Default RS232 Settings

Parameters	**Value**
Baud Rate	115200 bps
Data bits	8 bits
Parity	None
Stop bits	1 bit
Flow control	None

Command Overview

Command Delimiter for Sent Commands

When sending commands using the IPv4 / Telnet API channel, all command lines sent from the 3rd party controller to the matrix should end with a specific character. This signifies when the command is processed by the matrix. This is usually specified in 3rd party control software as the "command delimiter," "stop character," or "line terminator."

Accepted delimiter characters are:

Character	Shorthand	Hex Notation	Escape Notation	Decimal Notation
Line Feed	LF	0A	\n	10
Carriage Return + Line Feed	CR LF	0D 0A	\r\n	13 10

Please note, most 3rd party control software will either append these characters automatically or an option to specify them will be present.

1.1 Set DSP matrix crosspoint state

Command Structure **SET DSP_MIX out_port in_port value<CR><LF>**	Parameters: out_port = {AMP, LINEOUT, DANTE1/2}; in_port = {LINE1/2, MIC1/2, DANTE1/2}; value = {ON, OFF}
Response Structure **DSP_MIX out_port in_port value<CR><LF>**	
Command Example **SET DSP_MIX AMP DANTE1 OFF<CR><LF>**	
Response Example **DSP_MIX AMP DANTE1 OFF<CR><LF>**	
Additional Notes:	

1.2 Get DSP matrix crosspoint state

Command Structure **GET DSP_MIX out_port in_port<CR><LF>**	Parameters: out_port = {AMP, LINEOUT, DANTE1/2}; in_port = {LINE1/2, MIC1/2, DANTE1/2}; value = {ON, OFF}
Response Structure **DSP_MIX out_port in_port value<CR><LF>**	
Command Example **GET DSP_MIX AMP DANTE1<CR><LF>**	
Response Example **DSP_MIX AMP DANTE1 OFF<CR><LF>**	
Additional Notes:	

1.3 Set DSP expander status

Command Structure **SET DSP_EXP port value<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2} value = {ON, OFF}
Response Structure **DSP_EXP port value<CR><LF>**	
Command Example **SET DSP_EXP LINE1 ON<CR><LF>**	
Response Example **DSP_EXP LINE1 ON<CR><LF>**	
Additional Notes:	

1.4 Get DSP expander status

Command Structure **GET DSP_EXP port<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2} value = {ON, OFF}
Response Structure **DSP_EXP port value<CR><LF>**	
Command Example **GET DSP_EXP LINE1<CR><LF>**	
Response Example **DSP_EXP LINE1 ON<CR><LF>**	
Additional Notes:	

1.5 Set DSP expander's properties

Command Structure **SET DSP_EXP_PROP field_id port value<CR><LF>**	Parameters: field_id = {Attack, Release, Threshold, Ratio} port = {LINE1/2, MIC1/2} value = {{Attack = {1 ~ 500 ms}, {Release = {1 ~ 2000 ms}, {Threshold = {-100 ~ 0 dB}, {Ratio = {1 ~ 100}}
Response Structure **DSP_EXP_PROP field_id port value<CR><LF>**	
Command Example **SET DSP_EXP_PROP attack mic1 50<CR><LF>**	
Response Example **DSP_EXP_PROP attack mic1 50<CR><LF>**	
Additional Notes:	

1.6 Get DSP expander’s properties

Command Structure **GET DSP_EXP_PROP field_id port<CR><LF>**	Parameters: field_id = {Attack, Release, Threshold, Ratio} port ={LINE1/2, MIC1/2} value = {{Attack = {1 ~ 500 ms}, {Release = {1 ~ 2000 ms}, {Threshold = {-100 ~ 0 dB}, {Ratio = {1 ~ 100}}
Response Structure **DSP_EXP_PROP field_id port value<CR><LF>**	
Command Example **GET DSP_EXP_PROP attack LINE1<CR><LF>**	
Response Example **DSP_EXP_PROP attack LINE1 50<CR><LF>**	
Additional Notes:	

1.7 Set DSP input HPF's status

Command Structure **SET DSP_IN_HPF port value<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2} value = {ON, OFF}
Response Structure **DSP_IN_HPF port value<CR><LF>**	
Command Example **SET DSP_IN_HPF LINE1 OFF<CR><LF>**	
Response Example **DSP_IN_HPF LINE1 OFF<CR><LF>**	
Additional Notes:	

1.8 Get DSP input HPF's status

Command Structure **GET DSP_IN_HPF port<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2} value = {ON, OFF}
Response Structure **DSP_IN_HPF port value<CR><LF>**	
Command Example **GET DSP_IN_HPF LINE1<CR><LF>**	
Response Example **DSP_IN_HPF LINE1 OFF<CR><LF>**	
Additional Notes:	

1.9 Set DSP input HPF's property

Command Structure **SET DSP_IN_HPF_PROP port value<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2} value = {20 ~ 20000 Hz}
Response Structure **DSP_IN_HPF_PROP port value<CR><LF>**	
Command Example **SET DSP_IN_HPF_PROP LINE1 20<CR><LF>**	
Response Example **DSP_IN_HPF_PROP LINE1 20<CR><LF>**	
Additional Notes:	

1.10 Get DSP input HPF's property

Command Structure **GET DSP_IN_HPF_PROP port<CR><LF>**	Parameters: por = {LINE1/2, MIC1/2} value = {20 ~ 20000 Hz}
Response Structure **DSP_IN_HPF_PROP port value<CR><LF>**	
Command Example **GET DSP_IN_HPF_PROP LINE1<CR><LF>**	
Response Example **DSP_IN_HPF_PROP LINE1 20<CR><LF>**	
Additional Notes:	

1.11 Set DSP output HPF's status

Command Structure **SET DSP_OUT_HPF port value<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_OUT_HPF port value<CR><LF>**	
Command Example **SET DSP_OUT_HPF AMP OFF<CR><LF>**	
Response Example **DSP_OUT_HPF AMP OFF<CR><LF>**	
Additional Notes:	

1.12 Get DSP output HPF's status

Command Structure **GET DSP_OUT_HPF port<CR><LF>**	Parameters: port ={AMP, LINEOUT, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_OUT_HPF port value<CR><LF>**	
Command Example **GET DSP_OUT_HPF AMP<CR><LF>**	
Response Example **DSP_OUT_HPF AMP OFF<CR><LF>**	
Additional Notes:	

1.13 Set DSP output HPF's property

Command Structure **SET DSP_OUT_HPF_PROP port value<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {20 ~ 20000 Hz}
Response Structure **DSP_OUT_HPF_PROP port value<CR><LF>**	
Command Example **SET DSP_OUT_HPF_PROP AMP 20<CR><LF>**	
Response Example **DSP_OUT_HPF_PROP AMP 20<CR><LF>**	
Additional Notes:	

1.14 Get DSP output HPF's property

Command Structure **GET DSP_OUT_HPF_PROP port<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {20 ~ 20000 Hz}
Response Structure **DSP_OUT_HPF_PROP port value<CR><LF>**	
Command Example **GET DSP_OUT_HPF_PROP AMP<CR><LF>**	
Response Example **DSP_OUT_HPF_PROP AMP 20<CR><LF>**	
Additional Notes:	

1.15 Set DSP compressor status

Command Structure **SET DSP_COMP port value<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2} value = {ON, OFF}
Response Structure **DSP_COMP port value<CR><LF>**	
Command Example **SET DSP_COMP LINE1 OFF<CR><LF>**	
Response Example **DSP_COMP LINE1 OFF<CR><LF>**	
Additional Notes:	

1.16 Get DSP compressor status

Command Structure **GET DSP_COMP port<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2} value = {ON, OFF}
Response Structure **DSP_COMP port value<CR><LF>**	
Command Example **GET DSP_COMP LINE1<CR><LF>**	
Response Example **DSP_COMP LINE1 OFF<CR><LF>**	
Additional Notes:	

1.17 Set DSP compressor's property

Command Structure **SET DSP_COMP_PROP field_id port value<CR><LF>**	Parameters: field_id = {Attack, Release, Threshold, Ratio} port = {LINE1/2, MIC1/2} value = {{Attack = {0 ~ 500 ms}, {Release = {0 ~ 2000 ms}, {Threshold = {-100 ~ 0 dB}, {Ratio = {1 ~ 100}}
Response Structure **DSP_COMP_PROP field_id port value<CR><LF>**	
Command Example **SET DSP_COMP attack LINE1 15<CR><LF>**	
Response Example **DSP_COMP attack LINE1 15<CR><LF>**	
Additional Notes:	

1.18 Get DSP compressor's property

Command Structure **GET DSP_COMP_PROP field_id port<CR><LF>**	Parameters: field_id = {Attack, Release, Threshold, Ratio} port = {LINE1/2, MIC1/2} value = {{Attack = {0 ~ 100 ms}, {Release = {0 ~ 10000 ms}, {Threshold = {-100 ~ 0 dB}, {Ratio = {1 ~ 100}}
Response Structure **DSP_COMP_PROP field_id port value<CR><LF>**	
Command Example **GET DSP_COMP attack LINE1<CR><LF>**	
Response Example **DSP_COMP attack LINE1 15<CR><LF>**	
Additional Notes:	

1.19 Set DSP equalizer's status

Command Structure **SET DSP_EQ port value<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_EQ port value<CR><LF>**	
Command Example **SET DSP_EQ AMP OFF<CR><LF>**	
Response Example **DSP_EQ AMP OFF<CR><LF>**	
Additional Notes:	

1.20 Get DSP equalizer's status

Command Structure **GET DSP_EQ port<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_EQ port value<CR><LF>**	
Command Example **GET DSP_EQ AMP<CR><LF>**	
Response Example **DSP_EQ AMP OFF<CR><LF>**	
Additional Notes:	

1.21 Set DSP equalizer's property

Command Structure **SET DSP_EQ_PROP field port band value<CR><LF>**	Parameters: field = {level, freq, qfactor} port = {AMP, LINEOUT, DANTE1/2} band = {1 ~ 10} value = {{level = {-10 ~ 10 dB}, {freq = {20 ~ 20000 Hz}, {qfactor = {0 ~ 16}}
Response Structure **DSP_EQ_PROP field port band value<CR><LF>**	
Command Example **SET DSP_EQ_PROP level AMP 1 0<CR><LF>**	
Response Example **DSP_EQ_PROP level AMP 1 0<CR><LF>**	
Additional Notes:	

1.22 Get DSP equalizer's property

Command Structure **GET DSP_EQ_PROP field port band<CR><LF>**	Parameters: field = {level, freq, qfactor} port = {AMP, LINEOUT, DANTE1/2} band = {1 ~ 10} value = {{level = {-10 ~ 10 dB}, {freq = {20 ~ 20000 Hz}, {qfactor = {0 ~ 16}}
Response Structure **DSP_EQ_PROP field port band value<CR><LF>**	
Command Example **GET DSP_EQ_PROP level AMP 1<CR><LF>**	
Response Example **DSP_EQ_PROP level AMP 1 0<CR><LF>**	
Additional Notes:	

1.23 Set DSP LPF's status

Command Structure **SET DSP_LPF port value<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_LPF port value<CR><LF>**	
Command Example **SET DSP_LPF AMP OFF<CR><LF>**	
Response Example **DSP_LPF AMP OFF<CR><LF>**	
Additional Notes:	

1.24 Get DSP LPF's status

Command Structure **GET DSP_LPF port<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_LPF port value<CR><LF>**	
Command Example **GET DSP_LPF AMP<CR><LF>**	
Response Example **DSP_LPF AMP OFF<CR><LF>**	
Additional Notes:	

1.25 Set DSP LPF’s property

Command Structure **SET DSP_LPF_PROP port value<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {20 ~ 20000 Hz}
Response Structure **DSP_LPF_PROP port value<CR><LF>**	
Command Example **SET DSP_LPF_PROP AMP 20<CR><LF>**	
Response Example **DSP_LPF_PROP AMP 20<CR><LF>**	
Additional Notes:	

1.26 Get DSP LPF's property

Command Structure **GET DSP_LPF_PROP port<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {20 ~ 20000 Hz}
Response Structure **DSP_LPF_PROP port value<CR><LF>**	
Command Example **GET DSP_LPF_PROP AMP<CR><LF>**	
Response Example **DSP_LPF_PROP AMP 20<CR><LF>**	
Additional Notes:	

1.27 Set DSP duck's tatus

Command Structure **SET DSP_DUCK port value<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_DUCK port value<CR><LF>**	
Command Example **SET DSP_DUCK AMP OFF<CR><LF>**	
Response Example **DSP_DUCK AMP OFF<CR><LF>**	
Additional Notes:	

1.28 Get DSP duck's status

Command Structure **GET DSP_DUCK port<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_DUCK port value<CR><LF>**	
Command Example **GET DSP_DUCK AMP<CR><LF>**	
Response Example **DSP_DUCK AMP OFF<CR><LF>**	
Additional Notes:	

1.29 Set DSP duck's property

Command Structure **SET DSP_DUCK_PROP field_id port value<CR><LF>**	Parameters: field_id = {Attack, Release, Threshold, Ratio} port = {AMP, LINEOUT, DANTE1/2} value = {{Attack = {1 ~ 500 ms}, {Release = {1 ~ 2000 ms}, {Threshold = {-100 ~ 0 dB}, {Ratio = {1 ~ 100}}}
Response Structure **DSP_DUCK_PROP field_id port value<CR><LF>**	
Command Example **SET DSP_DUCK_PROP attack AMP 80<CR><LF>**	
Response Example **DSP_DUCK_PROP attack AMP 80<CR><LF>**	
Additional Notes:	

1.30 Get DSP duck's property

Command Structure **GET DSP_DUCK_PROP field_id port<CR><LF>**	Parameters: field_id = {Attack, Release, Threshold, Ratio} port= {AMP, LINEOUT, DANTE1/2} value = {{Attack = {1 ~ 500 ms}, {Release = {1 ~ 2000 ms}, {Threshold = {-100 ~ 0 dB}, {Ratio = {1 ~ 100}}}
Response Structure **DSP_DUCK_PROP field_id port value<CR><LF>**	
Command Example **GET DSP_DUCK_PROP attack AMP<CR><LF>**	
Response Example **DSP_DUCK_PROP attack AMP 80<CR><LF>**	
Additional Notes:	

1.31 Set DSP duck's master

Command Structure **SET DSP_DUCK_PRI port value<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {LINE1/2, MIC1/2, DANTE1/2}
Response Structure **DSP_DUCK_PRI port value<CR><LF>**	
Command Example **SET DSP_DUCK_PRI AMP LINE1<CR><LF>**	
Response Example **DSP_DUCK_PRI AMP LINE1<CR><LF>**	
Additional Notes:	

1.32 Get DSP duck's master

Command Structure **GET DSP_DUCK_PRI port<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {LINE1/2, MIC1/2, DANTE1/2}
Response Structure **DSP_DUCK_PRI port value<CR><LF>**	
Command Example **GET DSP_DUCK_PRI AMP<CR><LF>**	
Response Example **DSP_DUCK_PRI AMP LINE1<CR><LF>**	
Additional Notes:	

1.33 Set input audio mute status

Command Structure **SET DSP_AUD_GAIN_MUTE port value<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_AUD_GAIN_MUTE port value<CR><LF>**	
Command Example **SET DSP_AUD_GAIN_MUTE LINE1 OFF<CR><LF>**	
Response Example **DSP_AUD_GAIN_MUTE LINE1 OFF<CR><LF>**	
Additional Notes:	

1.34 Get input audio mute status

Command Structure **GET DSP_AUD_GAIN_MUTE port<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2, DANTE1/2} value = {ON, OFF}
Response Structure **DSP_AUD_GAIN_MUTE port value<CR><LF>**	
Command Example **GET DSP_AUD_GAIN_MUTE LINE1<CR><LF>**	
Response Example **DSP_AUD_GAIN_MUTE LINE1 OFF<CR><LF>**	
Additional Notes:	

1.35 Set input audio gain

Command Structure **SET DSP_AUD_GAIN port value<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2, DANTE1/2} value ={-20 ~ 20 dB}
Response Structure **DSP_AUD_GAIN port value<CR><LF>**	
Command Example **SET DSP_AUD_GAIN LINE1 10<CR><LF>**	
Response Example **DSP_AUD_GAIN LINE1 10<CR><LF>**	
Additional Notes:	

1.36 Get input audio gain

Command Structure **GET DSP_AUD_GAIN port<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2, DANTE1/2} value = {-20 ~ 20 dB}
Response Structure **DSP_AUD_GAIN port value<CR><LF>**	
Command Example **GET DSP_AUD_GAIN LINE1<CR><LF>**	
Response Example **DSP_AUD_GAIN LINE1 10<CR><LF>**	
Additional Notes:	

1.37 Set output audio mute status

Command Structure **SET DSP_AUD_VOL_MUTE port value<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {OFF, ON};
Response Structure **DSP_AUD_VOL_MUTE port value<CR><LF>**	
Command Example **SET DSP_AUD_VOL_MUTE AMP OFF<CR><LF>**	
Response Example **DSP_AUD_VOL_MUTE AMP OFF<CR><LF>**	
Additional Notes:	

1.38 Get output audio mute status

Command Structure **GET DSP_AUD_VOL_MUTE port<CR><LF>**	Parameters: port ={AMP, LINEOUT, DANTE1/2} value = {OFF, ON};
Response Structure **DSP_AUD_VOL_MUTE port value<CR><LF>**	
Command Example **SET DSP_AUD_VOL_MUTE AMP<CR><LF>**	
Response Example **DSP_AUD_VOL_MUTE AMP OFF<CR><LF>**	
Additional Notes:	

1.39 Set output audio volume

Command Structure **SET DSP_AUD_VOL port value<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {-100 ~ 0 dB, up,down};
Response Structure **DSP_AUD_VOL port value<CR><LF>**	
Command Example **SET DSP_AUD_VOL AMP -60<CR><LF>**	
Response Example **DSP_AUD_VOL AMP -60<CR><LF>**	
Additional Notes:	

1.40 Get output audio volume

Command Structure **GET DSP_AUD_VOL port<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {-100 ~ 0 dB};
Response Structure **DSP_AUD_VOL port value<CR><LF>**	
Command Example **GET DSP_AUD_VOL AMP<CR><LF>**	
Response Example **DSP_AUD_VOL AMP -60<CR><LF>**	
Additional Notes:	

1.41 Read DSP input's meter

Command Structure **GET DSP_IN_METER port<CR><LF>**	Parameters: port = {LINE1/2, MIC1/2, DANTE1/2} value = {-100 ~ 0 dB};
Response Structure **DSP_IN_METER port value<CR><LF>**	
Command Example **GET DSP_IN_METER LINE1<CR><LF>**	
Response Example **DSP_IN_METER LINE1 -60<CR><LF>**	
Additional Notes:	

1.42 Read DSP output's meter

Command Structure **GET DSP_OUT_METER port<CR><LF>**	Parameters: port = {AMP, LINEOUT, DANTE1/2} value = {-100 ~ 0 dB};
Response Structure **DSP_OUT_METER port value<CR><LF>**	
Command Example **GET DSP_OUT_METER AMP<CR><LF>**	
Response Example **DSP_OUT_METER AMP -60<CR><LF>**	
Additional Notes:	

1.43 Set the connection lock status of the DSP output port.

Command Structure **SET DSP_LINK_LOCK port prm<CR><LF>**	Parameters: port = {1 }; 1:: link DANTE1 & DANTE2; prm = {on ,off};
Response Structure **DSP_LINK_LOCK port prm<CR><LF>**	
Command Example **SET DSP_LINK_LOCK 1 ON<CR><LF>**	
Response Example **DSP_LINK_LOCK 1 ON<CR><LF>**	
Additional Notes:	

1.44 Get the connection lock status of the DSP output port

Command Structure **GET DSP_LINK_LOCK port<CR><LF>**	Parameters: port = {1 }; 1:: link DANTE1 & DANTE2; prm = {on ,off};
Response Structure **DSP_LINK_LOCK port prm<CR><LF>**	
Command Example **GET DSP_LINK_LOCK 1<CR><LF>**	
Response Example **DSP_LINK_LOCK 1 ON<CR><LF>**	
Additional Notes:	

1.45 Set enable/disable DSP audio delay

Command Structure **SET DSP_DELAY_EN port value<CR><LF>**	Parameters: port = {AMP} value = {on,off}
Response Structure **DSP_DELAY_EN port value<CR><LF>**	
Command Example **SET DSP_DELAY_EN AMP on<CR><LF>**	
Response Example **DSP_DELAY_EN AMP on<CR><LF>**	
Additional Notes:	

1.46 Get if DSP audio delay is enabled

Command Structure **GET DSP_DELAY_EN port <CR><LF>**	Parameters: port = {AMP} value = {on,off}
Response Structure **DSP_DELAY_EN port value<CR><LF>**	
Command Example **GET DSP_DELAY_EN AMP <CR><LF>**	
Response Example **DSP_DELAY_EN AMP on<CR><LF>**	
Additional Notes:	

1.47 Set DSP audio delay

Command Structure **SET DSP_DELAY port value<CR><LF>**	Parameters: port = {AMP} value = {0~200}
Response Structure **DSP_DELAY port value<CR><LF>**	
Command Example **SET DSP_DELAY AMP 5<CR><LF>**	
Response Example **DSP_DELAY AMP 5<CR><LF>**	
Additional Notes:	

1.48 Get DSP audio delay

Command Structure **GET DSP_DELAY port <CR><LF>**	Parameters: port = {AMP} value = {0~200}
Response Structure **DSP_DELAY port value<CR><LF>**	
Command Example **GET DSP_DELAY AMP <CR><LF>**	
Response Example **DSP_DELAY AMP 5<CR><LF>**	
Additional Notes:	

2.1 Get the AMP Mode

Command Structure **GET AMP_MODE<CR><LF>**	Parameters: prm = {4OHM, 8OHM, 70V, 100V};
Response Structure **AMP_MODE prm<CR><LF>**	
Command Example **GET AMP_MODE <CR><LF>**	
Response Example **AMP_MODE 4OHM<CR><LF>**	
Additional Notes: 4OHM：LOW-Z 4ohm 8OHM：LOW-Z 8ohm 70V：Hi-Z 70V 100V：Hi-Z 100V	

2.2 Set input audio type

Command Structure **SET AUDIN_TYPE prm<CR><LF>**	Parameters: prm = {LINE, MIC}
Response Structure **AUDIN_TYPE prm<CR><LF>**	
Command Example **SET AUDIN_TYPE LINE<CR><LF>**	
Response Example **AUDIN_TYPE LINE<CR><LF>**	
Additional Notes:	

2.3 Get input audio type

Command Structure **GET AUDIN_TYPE <CR><LF>**	Parameters: prm = {LINE, MIC}
Response Structure **AUDIN_TYPE prm<CR><LF>**	
Command Example **GET AUDIN_TYPE <CR><LF>**	
Response Example **AUDIN_TYPE LINE<CR><LF>**	
Additional Notes:	

2.4 Set the volume up and down steps

Command Structure **SET VOL_LEVEL_STEP prm<CR><LF>**	Parameters: prm = {1~6};
Response Structure **VOL_LEVEL_STEP prm<CR><LF>**	
Command Example **SET VOL_LEVEL_STEP 5 <CR><LF>**	
Response Example **VOL_LEVEL_STEP 5 <CR><LF>**	
Additional Notes:	

2.5 Get the volume up and down steps

Command Structure **GET VOL_LEVEL_STEP<CR><LF>**	Parameters: prm = {1~6}
Response Structure **VOL_LEVEL_STEP prm<CR><LF>**	
Command Example **GET VOL_LEVEL_STEP <CR><LF>**	
Response Example **VOL_LEVEL_STEP 5 <CR><LF>**	
Additional Notes:	

3.1 Set LED brightness

Command Structure **SET LED_BRIGHTNESS prm<CR><LF>**	Parameters: prm = {off, dark, normal, bright};
Response Structure **LED_BRIGHTNESS prm<CR><LF>**	
Command Example **SET LED_BRIGHTNESS OFF<CR><LF>**	
Response Example **LED_BRIGHTNESS OFF<CR><LF>**	
Additional Notes:	

3.2 Get LED brightness

Command Structure **GET LED_BRIGHTNESS<CR><LF>**	Parameters: prm = {off, dark, normal, bright};
Response Structure **LED_BRIGHTNESS prm<CR><LF>**	
Command Example **GET LED_BRIGHTNESS <CR><LF>**	
Response Example **LED_BRIGHTNESS OFF<CR><LF>**	
Additional Notes:	

4.1 Set Phantom Power Control

Command Structure **SET MIC_PHA_PWR prm1 prm2<CR><LF>**	Parameters: prm1 = {1, 2}; prm2 = {on, off};
Response Structure **MIC_PHA_PWR prm1 prm2<CR><LF>**	
Command Example **SET MIC_PHA_PWR 0 on<CR><LF>**	
Response Example **MIC_PHA_PWR 0 on<CR><LF>**	
Additional Notes:	

4.2 Get Phantom Power

Command Structure **SET MIC_PHA_PWR prm1 prm2<CR><LF>**	Parameters: prm1 = {1, 2}; prm2 = {on, off};
Response Structure **MIC_PHA_PWR prm1 prm2<CR><LF>**	
Command Example **GET MIC_PHA_PWR 0 <CR><LF>**	
Response Example **MIC_PHA_PWR 0 on<CR><LF>**	
Additional Notes:	

5.1 Factory Reset

Command Structure **RESET<CR><LF>**	Parameters:
Response Structure **RESET<CR><LF>**	
Command Example **RESET<CR><LF>**	
Response Example **RESET<CR><LF>**	
Additional Notes:	

5.2 System reboot

Command Structure **REBOOT<CR><LF>**	Parameters:
Response Structure **REBOOT<CR><LF>**	
Command Example **REBOOT<CR><LF>**	
Response Example **REBOOT<CR><LF>**	
Additional Notes:	

5.3 GET IP address

Command Structure **GET IPADDR<CR><LF>**	Parameters:
Response Structure **IPADDR xxx.xxx.xxx.xxx MASK xxx.xxx.xxx.xxx GATEWAY xxx.xxx.xxx.xxx<CR><LF>**	
Command Example **GET IPADDR<CR><LF>**	
Response Example **IPADDR 192.168.1.2 MASK 255.255.255.0 GATEWAY 192.168.2.1<CR><LF>**	
Additional Notes:	

5.4 Set IP address

Command Structure **SET IPADDR xxx.xxx.xxx.xxx MASK xxx.xxx.xxx.xxx GATEWAY xxx.xxx.xxx.xxx<CR><LF>**	Parameters:
Response Structure **IPADDR xxx.xxx.xxx.xxx MASK xxx.xxx.xxx.xxx GATEWAY xxx.xxx.xxx.xxx<CR><LF>**	
Command Example **SET IPADDR 192.168.1.2 MASK 255.255.255.0 GATEWAY 192.168.2.1<CR><LF>**	
Response Example **IPADDR 192.168.1.2 MASK 255.255.255.0 GATEWAY 192.168.2.1<CR><LF>**	
Additional Notes:	

5.5 SET Netconfig mode

Command Structure **SET NETCFG MODE prm<CR><LF>**	Parameters: prm = {DHCP, STATIC};
Response Structure **NETCFG MODE prm<CR><LF>**	
Command Example **SET NETCFG MODE DHCP<CR><LF>**	
Response Example **NETCFG MODE DHCP<CR><LF>**	
Additional Notes:	

5.6 GET Netconfig mode

Command Structure **GET NETCFG MODE<CR><LF>**	Parameters: prm = {DHCP, STATIC}
Response Structure **NETCFG MODE prm<CR><LF>**	
Command Example **GET NETCFG MODE<CR><LF>**	
Response Example **NETCFG MODE DHCP<CR><LF>**	
Additional Notes:	

5.7 Get selected target firmware version

Command Structure **GET VER<CR><LF>**	Parameters: prm = {…}// according to actual firmware version
Response Structure **VER prm<CR><LF>**	
Command Example **GET VER<CR><LF>**	
Response Example **VER ARM VER V1.0.3 MCU VER V1.0.0**	
Additional Notes:	

5.8 Get selected target hardware version

Command Structure **GET HW_VER<CR><LF>**	Parameters: prm = {…}// according to actual firmware version
Response Structure **HWVER prm<CR><LF>**	
Command Example **GET HW_VER<CR><LF>**	
Response Example **HW_VER V0.1**	
Additional Notes:	

5.9 Get the API list

Command Structure **help<CR><LF>**	Parameters:
Response Structure **xxxx**	
Command Example **help<CR><LF>**	
Response Example **xxxx**	
Additional Notes:	

6.1 Set HTTPS service status

Command Structure **SET HTTPS prm<CR><LF>**	Parameters: prm= {on, off};
Response Structure **HTTPS prm <CR><LF>**	
Command Example **SET HTTPSS on<CR><LF>**	
Response Example **HTTPS on<CR><LF>**	
Additional Notes:	

6.2 Get HTTPS service status

Command Structure **GET HTTPS<CR><LF>**	Parameters: prm= {on, off};
Response Structure **HTTPS<CR><LF>**	
Command Example **GET HTTPS<CR><LF>**	
Response Example **HTTPS on<CR><LF>**	
Additional Notes:	

6.3 Set TelnetS service status

Command Structure **SET TELNETS prm<CR><LF>**	Parameters: prm= {on, off};
Response Structure **TELNETS prm <CR><LF>**	
Command Example **SET TELNETS on<CR><LF>**	
Response Example **TELNETS on<CR><LF>**	
Additional Notes:	

6.4 Get TELNETS service status

Command Structure **GET TELNETS<CR><LF>**	Parameters: prm= {on, off};
Response Structure **TELNETS prm <CR><LF>**	
Command Example **GET TELNETS<CR><LF>**	
Response Example **TELNETS on<CR><LF>**	
Additional Notes:	

6.5 Set New password for API command control via telnet

Command Structure **SET API_PWD Oldpwd Newpwd NewpwdVerify<CR><LF>**	Parameters: Old/Newpwd : Must be 4 to 16 characters in lentgh (alphanumeric only) prm : {0, 1}; // 0 : failed, 1 : success
Response Structure **API_PWD prm<CR><LF>**	
Command Example **SET API_PWD admin admin123 admin123<CR><LF>**	
Response Example **TEL_PWD 1<CR><LF>**	
Additional Notes:	

6.6 Set SSH service status

Command Structure **SET SSH prm<CR><LF>**	Parameters: prm= {on, off};
Response Structure **SSH prm <CR><LF>**	
Command Example **SET SSH on<CR><LF>**	
Response Example **SSH on<CR><LF>**	
Additional Notes:	

6.7 Get SSH service status

Command Structure **GET SSH<CR><LF>**	Parameters: prm= {on, off};
Response Structure **SSH prm <CR><LF>**	
Command Example **GET SSH<CR><LF>**	
Response Example **SSH on<CR><LF>**	
Additional Notes:	