



airScope - UART messages

Please check the following for the UART messages:

{param}	this is a field for a param, you should replace it with a specified text in actual message to send
[]	optional
NA	not available
message	normally query current state when execute with no param, and normally set the value when continued with param
execution UART (some model)	message need to be terminated with ;
uart passthrough tool	message need to be sent in this format: MCU+PAS+RAKOIT:{message}&
ACPWorkbench	send via Tag button without response. And need to close the window for each execution



MESSAGE	API	RESPONSE	PARAM	DESCRIPTION
VER	3	VER:{firmware}- {commit}-{api}	{firmware} firmware version {commit} git commit when building {api} api version	get firmware version information
STA	3	MCU+PAS+STA: {source},{mute}, {volume},{treble}, {bass},{net}, {internet}, {playing},{led}, {upgrading}	{source} NET/USB/USBDAC/LINE-IN/ LINE-IN2/BT/OPT/COAX/I2S/HDMI {mute} 0/1 {volume} 0~100 {treble} -10~10 {bass} -10~10 {net} 0/1 {internet} 0/1 {playing} 0/1 {led} 0/1 {upgrading} 0/1	get system running state
SYS:{cmd}	3	NA	{cmd} REBOOT/STANDBY/RESET/RECOVER	system control, reboot device, enter standby, factory reset, recover all data
WWW	3	WWW:{onoff}	{onoff} 0/1	get internet state
AUD[:{onoff}]	3	AUD:{onoff}	{onoff} 0/1	get/set audio output
SRC[:{source}]	3	SRC:{source}	{source} NET/USB/USBDAC/LINE-IN/ LINE-IN2/BT/OPT/COAX/I2S/HDMI	get/set current input source
VOL[:{volume}]	3	VOL:{volume}	{volume} 0 ~ 100	get/set volume
MUT[:{onoff}]	3	MUT:{onoff}	{onoff} 0/1/T, off/on/toggle	get/set mute
BAS[:{bass}]	3	BAS:{bass}	{bass} -10 ~ 10	get/set BASS value
TRE[:{treble}]	3	TRE:{treble}	{treble} -10 ~ 10	get/set TREBLE value
POP	3	NA	only available in BT/NET/USB mode (*1)	play or pause
STP	3	NA	only available in NET/USB mode	stop
NXT	3	NA	only available in BT/NET/USB mode (*1)	next
PRE	3	NA	only available in BT/NET/USB mode (*1)	previous



MESSAGE	API	RESPONSE	PARAM	DESCRIPTION
BTC[:{onoff}]	3	BTC:{onoff}	{onoff} 0/1	get current bt connection state, or reconnect/disconnect current device. only available in BT mode and device with no external bt module. Control will have no return
PLA	3	PLA:{playing}	{playing} 0/1, wifi playing status	get current network playback state
CHN	3	CHN:{channel}	{channel} L/R/S	get current channel state
MRM	3	MRM:{mode}	{mode} S/M/N, slave/master/none	get current multiroom state
LED[:{onoff}]	3	LED:{onoff}	{onoff} 0/1/T, off/on/toggle	get/set LED state
BEP[:{beep}]	3	BEP:{beep}	{beep} 0/1, off/on	get/set beep key sound, enabled or disabled
PST:{preset}	3	NA	{preset} 0 ~ 10	get/set PRESET value
VBS[:{onoff}]	3	VBS:{onoff}	{onoff} 0/1/T, off/on/toggle	get/set virtual bass
WRS	3	NA		wifi reset
LPM[:{loopmode}]	3	LPM:{loopmode}	{loopmode} REPEATALL/REPEATONE/REPEATSHUFFLE/SHUFFLE/SEQUENCE	set/get loopmode for network playback
NAM[:{name}]	3	NAM:{name}	{name} hexed string with UTF8 encoding eg: 536F756E6453797374656D5F39383235 = SoundSystem_9825	set/get current device name. Remains after factory reset
ETH	3	ETH:{onoff}	{onoff} 0/1	get ethernet state
WIF	3	WIF:{onoff}	{onoff} 0/1	get wifi state
PMT[:{onoff}]	4	PMT:{onoff}	{onoff} 0/1	set/get current prompt voice state, enabled or disabled. Remains after factory reset



MESSAGE	API	RESPONSE	PARAM	DESCRIPTION
PRG:{{onoff}}	4	PRG:{{onoff}}	{{onoff}} 0/1	set/get pregain before tone, enabled or disabled
DLY [{{mute_delay}}	4	DLY:{{mute_delay}}	{{mute_delay}} 1-60	set/get delay time before system output control, default 30
MXV [{{max_vol}}	4	MXV:{{max_vol}}	{{max_volume}} 30~100	set/get system max volume. Remains after factory reset
ASW [{{auto_swith}}	4	ASW:{{auto_switch}}	{{auto_switch}} 0/1	enable/disable the auto switch to previous source after playback stopped (network)
POM:{{source}}	4	POM:{{source}}	{{source}} system source	set the input mode when power on, NONE for keeping last source.
ZON:{{zone}}: {{msg}}	4	related to {{msg}} sent	{{zone}} zone index, or use ALL to all zones {{msg}} detailed API message	send API message to specified zone, and will reply with the response message only available on model M400, zone index can be set by 7 PINs on right side

The UART is used as an API, not a shell, so no echo feedback. And for each command, it is supposed to end with ; for example, to set volume to 50, you need to send VOL:50;

USE FOR COM-PORT: 115200,8,N,1, no flow control.