SA50 TCP API

Connection

method: TCP, port: 8899

time gap for 2 commands need to be more than 200ms

Data Format

header	4	0x18, 0x96, 0x18, 0x20
length	4	little endian int, length of the payload. eg: 0x0b, 0x00, 0x00, 0x00, means payload length is 11 bytes.
checksum	4	little endian int, sum of all payload bytes. eg: 0xc1, 0x02, 0x00, 0x00
reserved	8	0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
payload	N	commands send to device.

Example to set volume to 50%, need to send the following bytes:

0x18, 0x96, 0x18, 0x20, 0x0b, 0x00, 0x00, 0x00, 0xc1, 0x02, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x4d, 0x43, 0x55, 0x2b, 0x56, 0x4f, 0x4c, 0x2b, 0x30, 0x35, 0x30

Data Payload

payload	description
MCU+VOL+GET	Get current volume, will return current volume
MCU+VOL+NNN	Set system volume, will return current volume
MCU+MUT+NNN	Mute, '000' to unmute, '001' to mute, will return mute status
MCU+PAS+EQSet:treble:n&	set treble: n=0~9, middle is 5.
MCU+PAS+EQSet:bass:n&	set bass: n=0~9, middle is 5.
MCU+PAS+EQGet&	get current treble and bass value, will return with message
MCU+POW+OFF	Power off
MCU+PLM+NNN	Set current source, ensure the source exists. '000': wifi mode, and will resume the last playlist '004': local USB '005': AUX/LINE-IN '006': Bluetooth

	'008': Optical
MCU+PLM+GET	Get current source, will return source message
MCU+PLY+PUS	play/pause, will return mute and play status
MCU+PLY−PUS	pause, will return mute and play status when changed to paused, or else no return
MCU+PLY−PLA	play, will return mute and play status when changed to playing state, or else no return
MCU+PLY−STP	stop, clear the playlist and stop playing, will return mute and play status
MCU+PLY+GET	Get play status, will return play status
MCU+PLY+NXT	next, available when playing list, will return mute and play status when successed.
MCU+PLY+PRV	prev, available when playing list, will return mute and play status when successed.
MCU+KEY+NNN	play preset, '001' for preset #1, will return mute and play and key status when successed. and will return AXX+KEY+NIL when no preset.
MCU+KEY+NXT	play next preset, same return with MCU+KEY+NNN
MCU+PLP+XXX	set play mode '000': loop all '001': single loop '002': shuffle other: no loop
MCU+DEV+GET	return device information
MCU+MEA+GET	return playback meta data
MCU+PINFGET	request for playback status, will return AXX+PLY+INF

Message Received

AXX+UNKNOWN	unknown command received
AXX+VOL+NNN	system volume, NNN is the value. eg: 050 for 50%
AXX+MUT+NNN	system mute status, '000' for unmute, '001' for mute
MCU+PAS+EQ:bass:n&	current bass value
MCU+PAS+EQ:treble:n&	current treble value
AXX+PLM+NNN	source selected '001': airplay '002': DLNA '010'~'019': playlist '020'~'029': http api playing '040': LINE−IN '041': Bluetooth '043': Optical '050': Mirror '099': slave mode

AXX+PLY+NNN	play status, '000' for paused, '001' for playing
AXX+KEY+NNN	preset key playing status, 'RDY' for found preset, key number for playing preset, eg: '001', 'NIL' for preset not found.
AXX+DEV+INFdata&	data: self AP SSID;type;device name;connected router SSID;signal strength;battery state; battery value the route SSID is hexed string eg: AXX+DEV+INFWSA50_DF68;release;Family Room;49502D434F4D5F41505F322E3447;–46;0;0&
AXX+MEA+DATdata&	data: json format, {"title":"HEXSTRING", "artist":"HEXSTRING", "album":"HEXSTRING","vendor":"HEXSTRING"} eg: AXX+MEA+DAT{ "title": "E88081E78BBC202D20E5908CE6A18CE79A84E4BDA0", "artist": "", "album": "", "vendor": "" }&
AXX+PLY+INFdata&	data: json format, {"type":"0","ch":"0","mode":"10","loop":"4","eq":"0","status":"play","curpos":"3715","offset_pts":"3715","totlen":"171733","Title":"","Artist":"","Album":"","alarmflag":"0","plicount":"2","plicurr":"1","vol":"20","mute":"0","iuri":"687474703A2F2F3139322E3136382E302E3132383A31313233342F3135343539373832373138313839383837303534","uri":"687474703A2F2F3139322E3136382E302E3132383A31313233342F3135343539373832373138313839383837303534"}& curpos: current playback time totlen: total music length iuri/uri: link for music coverart