

IPCBox Commands

Version 0.09

IPCBox's API use TCP port 24

IPC System Commands			
Command Format	Reply	Function	Note
<code>config help</code>	s, set, status, get, g	Get help of config	
<code>config get help</code>	dns, ipsetting2, version, session, hardver, ipsetting, eth1, rs-232, dev, devicelist, telnet, system, d, device, name, eth0	Get help of config get.	
<code>config get name</code>	AC-MXIP-CBOX	Get IPC's name	
<code>config get version</code>	1.10	Get version	
<code>config get ipsetting</code>	autoip or dhcp or static/192.168.99.1/255.255. 255.0/192.168.99.254	Get LAN1's IP info.	
<code>config get ipsetting2</code>	autoip or dhcp or static/192.168.1.239/255.25 5.255.0/192.168.1.1	Get LAN2's IP info.	
<code>config get devicelist</code>	{ ["8278918939CB"] = { ch = "0000", dtype = "ast152x", id = "8278918939CB", ip = "169.254.8.17", mac = "8278918939CB" }, ["82BE33F3AE0C"] = { ch = "0000", dtype = "ast152x", id = "82BE33F3AE0C", ip = "169.254.6.242", mac = "82BE33F3AE0C" }, ["82FA3B00E809"] = { ch = "0000", dtype = "ast152x", id = "82FA3B00E809", ip = "169.254.5.62", mac = "82FA3B00E809" } }	Get device list	
<code>config get telnet alias</code>	on or off	Get telnet status	
<code>config get rs-232 alias</code>	on or off	Get rs-232 status	
<code>config get system sshservice</code>	on or off	Get ssh service status	
<code>config get dns</code>	8.8.8.8 8.8.4.4	Get dns	
<code>config set help</code>	webpass, ip4addr2, ip4addr,	Get help of config set	

	delete, telnetpasswd, passwd, system, d, webloginpasswd, restorefactory, dns, rs-232, eth1, reboot, telnet, eth0, device, dev, session		
config set ip4addr {autoip/dhcp/static:192.168.99.1:255.255.255.0:192.168.99.254}		Set LAN1's IP	
config set ip4addr2 {autoip/dhcp/static:192.168.100.1:255.255.255.0}		Set LAN2's IP	
config set webloginpasswd {username:password}		Set web login password.	
config set telnetpasswd {password} {username}		Set telnet {username}'s password	
config set delete telnetpasswd		Delete telnet's password	
config set restorefactory		Set IPC restore factory	
config set reboot		Reboot IPC	
config set telnet alias on/off		Set telnet on or off	
config set rs-232 alias on/off		Set rs-232 on or off	
config set system sshservice on/off		Set ssh service on or off	
config set dns {nameserverip1} [nameserverip2]		Set DNS	e. g. : config set dns 8.8.8.8 8.8.4.4
config set microusbmode {modeType}		Note: Only for AC-MXNET-SW1-ASM. Switch microUSB port between IPCBox and the Switch.	modeType = [1,2], 1:IPCBox, 2:Switch
IPC Device Commands			
Command Format	Reply	Function	Note
config get device help	status, ip, info, param	Get help of config get device	
config get device status {device_id/device_mac}	s_attaching or s_srv_on	Get device status	Get all device status, use command: config get device status ALL
config get device info {device_id/device_mac}	Response as: (TX) { ch = "0110", dtype = "ast152x", id = "026FB1F2ABCC", ip = "169.254.11.80",	Get device info	If RX info has not video, for 1G device, its default timing will be 3840x2160 30, and for 10G

	<pre> ipmode = "autoip", is_host = 1, mac = "026FB1F2ABCC", online = 1585019377, state = "s_attaching" } Response as: (RX): { ch = "0000", ch_a = "0110", ch_p = "0000", ch_r = "0110", ch_s = "0110", ch_u = "0110", ch_v = "9001", description = "TV1 DES", dtype = "ast152x", id = "TV1", ip = "169.254.4.99", ipmode = "autoip", mac = "823E75329510", online = 6828, state = "s_srv_on", tx = { ch = "9001", description = "7G DES", dtype = "ast152x", id = "7G", ip = "169.254.7.14", ipmode = "autoip", is_host = 1, mac = "025F074EE46E", online = 6828, state = "s_attaching" }, video = { frames_per_second = "60", height = "1080", width = "1920" } } </pre>		<p>device, its default timing will be 3840x2160 60.</p>
<pre> config get device param {param_name} {device_id/device_mac} </pre>		Get device param	
<pre> config set device help </pre>	<pre> multicast, info, id, cec, reboot, ip, audio, restorefactory, rm, param </pre>	Get help of config set device.	
<pre> config set device reboot {device_id/device_mac} </pre>		Reboot device	
<pre> config set device param {param_name} {param_value} {device_id/device_mac} </pre>		Set device param	
<pre> config set device restorefactory {device_id/device_mac} </pre>		Set device{device_id} restore factory	
<pre> config set device id {new_id} {device_id/device_mac} </pre>		Set device id to new_id (alias name).	
<pre> config set device ip {autoip/dhcp/static:192.168. 100.1:255.255.255.0:192.168 .100.254} </pre>		Set device ip	

{device_id/device_mac}			
config set device rm {device_id/device_mac}		Remove device from device list	
config set device audio input type hdmi/analog/auto/auto_1/auto_2		Set device audio type. Note: host only.	
config set device audio volume {value} {device_id/device_mac}		Set device audio volume. Note: client only.	
config set device multicast on/off {device_id/device_mac}		Set device multicast on or off.	
config set device channel {ch_select} {device_id/device_mac}		Set device channel.	Only for TX of 1G device. Note: {ch_select}'s scope is 0000 to 9999. e. g. : config set device channel 3126 TX1
config set device name {name_may_include_space} {device_id/device_mac}		Set device name.	
config set device description {description_may_include_space} {device_id/device_mac}		Set device description.	
config set device video {width height fps} {device_id/device_mac}		Set RX device's timing. when 1G set pass-through, we need send: config set device video 0 0 0 {device_id/device_mac}	All RX support: pass-through: only 1G device support. 1280X720 50 1280X720 60 1920X1080 24 1920X1080 50 1920X1080 60 3840X2160 30 3840X2160 60 e. g. : config set device video 3840 2160 30 RX12
config set device edid {edidIndex} {device_id/device_mac}		Set TX device's EDID. Currently only supports 1G device. When using 1G device, its serial port' s modeType need set to 2.	{edidIndex} = [0-15] 0: 1080P_2CH, 1: 1080P_6CH, 2: 1080P_3D_2CH, 3: 1080P_3D_6CH, 4: 4K30Hz_3D_2CH. 5: 4K30Hz_3D_6CH, 6: 4K30Hz_3D_8CH, 7: 1080P_2CH_HDR, 8: 1080P_6CH_HDR, 9: 1080P_3D_2CH_HDR, 10: 1080P_3D_6CH_HDR, 11: 4K30Hz_3D_2CH_HDR. 12: 4K30Hz_3D_6CH_HDR, 13: 4K30Hz_3D_8CH_HDR, 14: 1920X1200_2D_2CH_HDR. 15: User_EDID,

<p>config set device cec {hexData} {device_id/device_mac}</p>		<p>Send CEC data to device. if hexData=poweron/poweroff, IPC will send all poweron/poweroff cec to the device such as: config set device cec poweron {device_id/device_mac} or: config set device cec poweroff {device_id/device_mac}</p>	<p>{hexData} is 0036 or 0004 or other hex data.</p>
<p>config set device rs232mode {modeType} {device_id/device_mac}</p>		<p>Set device's RS232 mode type. Only supports 1G device. After switching the mode, the device will automatically restart.</p>	<p>{modeType} = [1,2]. 1: rs232 transparent transmission mode, data is transmitted from TX(RX) to RX(TX). 2: rs232 guest mode, data is transmitted from IPCBox to RX or TX.</p>
<p>config set device rs232setting {xx yy zz aa bb} {device_id/device_mac}</p>		<p>Set device's RS232 setting. Currently only supports 1G device. When using 1G device, its serial port ' s modeType need set to 2.</p>	<p>xx is baudrate = 300 ~ 115200 yy is data bits = 7 or 8 zz is parity = 0: None, 1: Even, 2: Odd aa is stop bits = 1 bb is flow-control = 0: None e. g. : config set device rs232setting 57600 8 0 1 0 RX6.</p>
<p>config set device rs232 dataType {serial port data} {device_id/device_mac}</p>		<p>Send serial port data to device. When using 1G device, its serial port ' s modeType need set to 2.</p>	<p>dataType = [1,2], 1:ASCII, 2:HEX. {serial port data} can be terminator with \r or \n or \r\n, but need add double '\': e.g.: 1, config set device rs232 1 DATA\r RX7 2, config set device rs232 2 DATA\n RX7 3, config set device rs232 1 DATA\r\n RX7 4, config set device rs232 2 DATA RX7 (DATA is serial port data, may include space.)</p>
<p>config set device rs232- \r\nset light on\r\n {device_id/device_mac} New API: config set device light on {device_id/device_mac}</p>		<p>Set device's light on. When using 1G device, its serial port ' s modeType need set to 2.</p>	
<p>config set device rs232- \r\nset light off\r\n {device_id/device_mac} New API: config set device light off {device_id/device_mac}</p>		<p>Set device's light off. When using 1G device, its serial port ' s modeType need set to 2.</p>	
<p>config set device rs232- \r\nset light flash\r\n</p>		<p>Set device's light flash. When using 1G device, its</p>	

{device_id/device_mac} New API: config set device light flash {device_id/device_mac}		serial port 's modeType need set to 2.	
config set device rs232- \\r\\nset alias- {aliasName}\\r\\n- {device_id/device_mac}		Set device's alias name. When using 1G device, its- serial port's modeType need- set to 2.	{aliasName}'s length need less than 12 characters.
config set device rs232- \\r\\nset displayIP- {xxx.xxx.xxx.xxx}\\r\\n- {device_id/device_mac}		Set device's display IP. When using 1G device, its- serial port's modeType need- set to 2.	{xxx.xxx.xxx.xxx} is the display IP.
config set device capture {device_id/device_mac}		Capture function	After send the command, there will be a new capture in the address. Such as: http://IPBox'IP:81/capture.bmp?dev=device_mac
config set device osd on/off {device_id/device_mac}		Set osd on or off. If set to all device, we need send: config set device osd on ALL or config set device osd off ALL	
config get device status {device_id/device_mac}		Get devcie diagnostics status. If we need to get all device status, we can send: config get device status ALL	
config set device hdrmode XX {rx_device_id/rx_device_mac}		Set HDR on/off	[XX=0-1] (0=Disable,1=Enable)
config set device copyedid {RxID} {TxID }		Copy edid from RX	
config set device copyloopedid {TxID or TxMAC}		Copy edid from loop.	
config set device profile XX {TxID or TxMAC}		Only for 1G. Set bandwidth.	[XX=0,5] (0=auto,5=200M)
config set device stretch XX {RxID or RxMAC}		Set stretch.	[XX=1-2], 1=stretch out, 2=fit in.
config set device rotate XX {RxID or RxMAC}		Set rotate.	[XX=0,3,6], 0=rotate 0, 3=rotate 180, 6=rotate 370.
config set device hdcp XX {RxID or RxMAC}		Set hdcp.	[XX=0-4]{0=Auto,1=Bypass,2=HDCP OFF, 3=HDCP1.4, 4=HDCP2.2}
config set device rs232pathdisable {RxID or		Disable rs232path.	

	<pre> hosts = { "026FB1F2ABCC" }, rotate = { 0, 180, 0, 0 }, rows = 2 } </pre>		
<code>vw add {vw_name} {rows} {cols}</code>		Add video wall, total rows is {rows}, total columns is {cols}	
<code>vw gap {vw_name} {vw} {ow} {vh} {oh}</code>		Set video wall bezel gap	
<code>vw tx {vw_name} {tx1} ..</code>		Set video wall tx1	Add source for video wall. When this command is executed, video wall will play this TX.
<code>vw rx {vw_name} {rx1[:row:col[:rotate]]} ..</code>		Set video wall {rx1} at row, col.	row>=1, col>=1, If the position row, col exist RX, new RX will replace old RX, and the old RX will be removed and displays an entire picture of TX. For 1G device, rotate =0 or 180, for 10G device rotate only equal 0.
<code>vw osd [vw_name] {on/off}</code>		Enable or disable osd	
<code>vw rmtx {vw_name} {tx1} [tx2] ..</code>		Delete video wall tx1	
<code>vw rmtx {vw_name} {rx1} [rx2 rx3...]</code>		Delete video wall rx1, rx2, rx3...	Removes one or multiple RX from video wall. If RX is removed, it displays an entire picture of TX.
<code>vw rm {vw_name}</code>		Delete video wall {vw_name}	
<code>vw active {vw_name} [force]</code>		Active video wall {vw_name}	
IPC Matrix Commands			
Command Format	Reply	Function	Note
<code>matrix help</code>	active, list, set, aset, add, rm, get	Get help of matrix	
<code>matrix list</code>	<pre> { juzhen = { sracs = { ["8278918939CB"] = "buzaixian", ["8263075A9363"] = "zaixian" }, type = "v" }, m1 = { type = "z" } } </pre>	Get matrix list	

	<pre> }, m2 = { srcs = { ["82BE33F3AE0C"] = "02351CC64267" }, type = "z" } </pre>		
matrix get {name}	<pre> \$ matrix get juzhen { srcs = { ["8278918939CB"] = "buzaixian", ["8263075A9363"] = "zaixian" }, type = "v" } </pre>	Get matrix {name}'s info.	
matrix add {name} {video/audio/usb/infrared/ serial/gpio/all}		Add new matrix {name}	
matrix set {name} {tx1 rx1 rx2 .. rxn[, tx2 rx..]}		Add tx1 points to rx1 and rx2, and more [tx2 point to rx...]	
matrix aset [[name]:[video/audio/usb/i nfrared/serial/gpio/all]] {tx1 rx1 rx2 .. rxn[, tx2 rx..]}		Reset tx1 point to rx1 and rx2, or reset the devices in the matrix[name]. The parameters in [] is not necessary . The default type is video . Effective immediately.	e.g.: set infrared from TX1 to RX1, RX3, ... RXn matrix aset :infrared TX1 RX1 RX2 .. RXn e.g.: set usb from TX1 to RX1, RX3, ... RXn matrix aset :usb TX1 RX1 RX2 .. RXn
matrix rm {name}		Delete matrix{name}	
matrix active {name} [force]		Active matrix {name}, if add [force], IPC will force refresh all the devices of matrix {name}	
IPC Scene Commands			
Command Format	Reply	Function	Note
scene help	active, list, set, rm, get	Get help of scene	
scene list	<pre> { scene1 = { matrix = { "juzhen" }, vwall = { "vw22" } } } </pre>	Get scene list	

	} \$ scene get scene1 { matrix = { "juzhen" }, vwall = { "vw22" } }	Get scene {name}'s info	
scene set vw {name} {vw1 ...}	"OK"	Put {vw1} of video wall into {name} of scene.	\$ scene set vw scene1 vw22 "OK"
scene set matrix {name} {mtx1 ...}	"OK"	Put {mtx1} of matrix into scene {name}.	\$ scene set matrix scene1 juzhen "OK"
scene rm {name}	"OK"	Delete scene {name}	
scene active {name} [force]		Active scene {name}, if add [force], IPC will force refresh all the devices of scene{name}	