



API REFERENCE

iSwitch 201K

2x1 18Gbps HDMI + USB-C KVM Switcher Kit — Control Protocol Reference

36 COMMANDS	RS-232 / TCP	9600,8,N,1
DOT-TERMINATED ASCII	DUAL TRANSPORT	SERIAL SETTINGS

www.infobitav.com

info@infobitav.com

OVERVIEW

This document is the standalone API reference for the iSwitch 201K, a 2x1 18Gbps HDMI + USB-C KVM switcher kit. It lists every control command exposed by the 201K command set as recorded in the Infobit protocol database, grouped by function (CEC, control, EDID, HDCP, lock, network, parameter, query, switching, system, third-party).

The iSwitch 201K accepts an ASCII command set terminated with a period (".") rather than the exclamation-mark ("!") terminator used by the iSwitch HK family — the two command grammars are not interchangeable.

Commands are available over both a local RS-232 control port and TCP/IP.

Refer to the Infobit reference SQLite database (Simulator/infobit_api.db, device_id 56) for the authoritative machine-readable copy of this command set.

COMMUNICATION

Primary transport	RS-232 (local control port)
Serial settings	9600 baud, 8 data bits, No parity, 1 stop bit
Secondary transport	TCP/IP (same command set as RS-232)
Line terminator	"." (period) on every command
Command categories	CEC, Control, EDID, HDCP, Lock, Network, Parameter, Query, Switching, System, Third-party

Note: The iSwitch 201K's dot-terminated (".") command grammar is distinct from the "!"-terminated ASCII grammar used by the iSwitch 201HK/401HK family documented separately in this batch. Do not mix the two command sets.

COMMAND REFERENCE

Every command supported by iSwitch 201K as documented in the Infobit protocol database, grouped by function. Fields left blank indicate no example, response, or explicit description was captured in the source documentation.

Name	Command Syntax	Example	Response Syntax	Description
system				
PHDBTON	PHDBTON.	PHDBTON.	HDBT 01 Power ON!	HDBaseT OUT PoC power on.
PHDBTOFF	PHDBTOFF.	PHDBTOFF.	HDBT 01 Power	HDBaseT OUT

Name	Command Syntax	Example	Response Syntax	Description
			OFF!	PoC power off.
POWON	POWON.	POWON.	Power ON!	Turn off standby mode.
POWOFF	POWOFF.	POWOFF.	Power OFF!	Turn on standby mode.
SIGNALTRG mode	SIGNALTRG[xx]MODE.	SIGNALTRG1MODE.	Set Trigger Mode To 5V.	Set detection mode. xx=1 5V,2 TMDS.
SIGNALTRGSTA	SIGNALTRGSTA.	SIGNALTRGSTA.	Get Trigger Mode Is 5V.	Query signal detection method.
RST	RST.	RST.	Factory Default!	Restore factory.

Name	Command Syntax	Example	Response Syntax	Description
switching				
HDMIA	HDMIA.	HDMIA.	HDMI Out Switch Auto Mode!	Auto-switch mode on.
HDMIM	HDMIM.	HDMIM.	HDMI Out Switch Manual Mode!	Manual-switch mode on.
HDMI select	HDMI[x].	HDMI1.	HDMI Out Switch To 01!	Select input. x=1 Type-C,2 HDMI.

Name	Command Syntax	Example	Response Syntax	Description
lock				
Lock	Lock.	Lock.	Front Panel Locked!	Front panel lock on.
Unlock	Unlock.	Unlock.	Front Panel UnLock!	Front panel lock off.

Name	Command Syntax	Example	Response Syntax	Description
query				
STA	STA.	STA.	iSwitch 201K V1.0.0 PWON! ...	Full status query.
STA_IN	STA_IN.	STA_IN.	IN 1 2 / LINK N N	Source connection status.

Name	Command Syntax	Example	Response Syntax	Description
cec				
TVON	TVON.	TVON.	CEC_TV_POWON! CEC Output 01 Send Success.	Turn on TV by CEC.
TVOFF	TVOFF.	TVOFF.	CEC_TV_POWOFF!	Turn off TV by CEC.
TVVOL+	TVVOL+.	TVVOL+.	CEC_TV_VOLUP!	TV volume up by CEC.
TVVOL-	TVVOL-.	TVVOL-.	CEC_TV_VOLDOWN!	TV volume down by CEC.
TVMUTE	TVMUTE.	TVMUTE.	CEC_TV_VOLMUTE/ UNMUTE!	TV mute by CEC.
CEC raw	CEC[I/O][AA][BB][CC][DD].	CECI01044400.	CEC Input 01 Send Success!	Raw CEC. I/O port; AA port(01-02/FF); BB dev type; CC func(44); DD data.

Name	Command Syntax	Example	Response Syntax	Description
hdcp				
HDCP PAS	HDCP[x]PAS.	HDCP0PAS.	OUT 01 HDCP PASSIVE!	Output HDCP follows input. x=0 all,1-2.
HDCP MAT	HDCP[x]MAT.	HDCP0MAT.	OUT 01 HDCP MAT Display!	Output HDCP follows display. x=0 all,1-2.

Name	Command Syntax	Example	Response Syntax	Description
HDCP ON	HDCP[x]ON.	HDCP00N.	OUT 01 HDCP ON!	Force HDCP 1.4 on. x=0 all,1-2.
HDCP OFF	HDCP[x]OFF.	HDCP00FF.	OUT 01 HDCP OFF!	Force HDCP off. x=0 all,1-2.

Name	Command Syntax	Example	Response Syntax	Description
control				
DS ON	DS[x]ON.	DS00N.	HDMI OUT 01 Down Scale ON!	Down-scale on. x=0 all,1-2.
DS OFF	DS[x]OFF.	DS00FF.	HDMI OUT 01 Down Scale OFF!	Down-scale off. x=0 all,1-2.
OUT 5V on	@OUT[xx].	@OUT01.	Set Output Black Screen ON!	Turn on HDMI 5V of output. xx=00 all,01.
OUT 5V off	\$OUT[xx].	\$OUT01.	Set Output Black Screen OFF!	Turn off HDMI 5V of output. xx=00 all,01.

Name	Command Syntax	Example	Response Syntax	Description
third-party				
Send serial	/+[X]/[YY]:XXX.	/+3/01:123456.	—	RS232 send to peripheral. X=1..7 baud; YY=00/01; XXX=data.

Name	Command Syntax	Example	Response Syntax	Description
network				
GETGUIIP	GETGUIIP.	GETGUIIP.	GUI_IP:192.168.0.173!	Query GUI IP.
SetGuiIP DHCP on	SetGuiIP_DHCPON.	SetGuiIP_DHCPON.	GUI IP DHCP ON!	Set GUI IP to DHCP.

Name	Command Syntax	Example	Response Syntax	Description
SetGuiIP DHCP off	SetGuiIP_DHCP OFF:xxx.xxx.x .xxx.	SetGuiIP_DHCP OFF :192.168.0.123.	GUI IP DHCP OFF! SETGUIIP:192.16 8.0.123!	Static IP (default 192.168.0.17 8).

Name	Command Syntax	Example	Response Syntax	Description
edid				
EDIDUpgrade	EDIDUpgrade[xx].	EDIDUpgrade01.	Input XX/User Define EDID Upgrade OK By RS232 Or GUI!	Upgrade EDID. xx=00- 02,U1-U4. Send .bin within 10s.
EDID use built-in	EDID/[xx]/[yy].	EDID/01/01.	Input 02 EDID Upgrade OK By 01 Internal EDID!	Input xx(00 all,01-02) uses built-in EDID yy(01-08 fixed,09-12 custom).
EDIDM learn	EDIDM[x]B[y].	EDIDM1B1.	Input 01 EDID Upgrade OK By 02 EXT EDID!	Input y learns EDID of output x. x=1- 2 output; y=0 all,1-2 input.

Name	Command Syntax	Example	Response Syntax	Description
parameter				
Baudrate	Baudrate[XXX].	Baudrate9600.	Set Local RS232 Baudrate Is 9600!	Set control baud. 115200/5760 0/38400/192 00/9600.