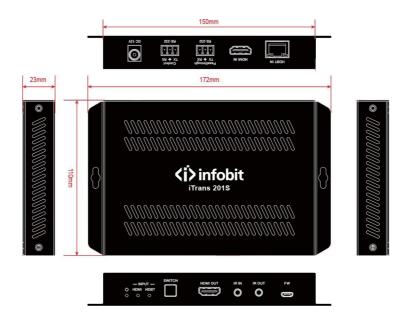


iTrans 201S

4K60 2x1 HDBaset Receiver w/ Scaler



Version: iTrans 201S_2023V1.0

^{*}Specifications are subject to changes without notice.

PRODUCT DESCRIPTION

The iTrans 201S is a professional 4K Scaler Receiver that scales HDMI/HDBaseT video signalto a HDMI output by selecting output resolution from 720p to 4K. The HDBaseT input supports PoCand can connect to HDBaseT transmitter up to a maximum of 100m.

With 1 IR In and 1 IR Out and 2 RS232 ports, the IR and RS232 control signals can be transmitted bidirectionally between the iTrans 201S and any compatible HDBaseT transmitter.

The iTrans 201S supports advanced built-in EDID and HDCP management. Video sourcescan be selected via front panel button and RS232 commands by 3rd Party control device.

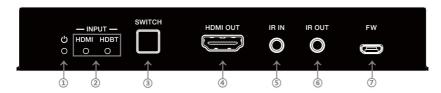
FEATURES

- Features 1 HDMI input and 1 HDBaseT input.
- The HDMI output resolution can be selected from 720p to 4Kx2K @60Hz 4:4:4 to assure preferred output.
- HDMI signals transmission up to 70m at 4K and 100m at 1080p on HDBT input.
- Output resolutions selectable to assure preferred output, and supports various output resolutions, such as 4Kx2K@60Hz, 4Kx2K@30Hz, 1920x1080p@60Hz, 1280x720@60Hz and so on.
- Supports RS232 pass-through to communicate control signal between the scaler and the connected HDBaseT matrix.
- Controllable via RS232 local and pass-through, IR local and pass-through.
- The receiver can be powered by the connected HDBaseT matrix via PoC.
- Supports advanced built-in EDID management.

Description

PANEL DESCRIPTIONS

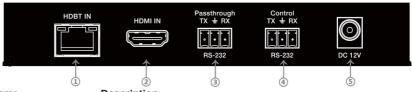
Front Panel



NO.	Name	Description
1	POWER LED	The LED illuminates green when the device is powered on.
2	INPUTS	Two blue LED indicators.
		HDMI: HDMI input activity LED.
		HDBT: HDBT input activity LED.
3	SWITCH	Press this button to toggle between two inputs.
4	HDMI OUT	Connects to HDMI display.
5	IR IN	Connects to IR receiver for IR pass-through control.
6	IR OUT	Connects to IR emitter for IR pass-through control.
7	FIRMWARE	Micro-USB port for firmware upgrade.

PANEL DESCRIPTIONS

Rear Panel



No. Name Description

1 HDBT IN Connects to the HDBT output of a compatible transmitter to

receive AV signal, IR and RS232 control signal.

2 HDMI IN Connects to HDMI source device

3 RS232 (Passthrough) Connects to the control device (e.g. PC) or a third-party device

for it to receive RS232 commands from a compatible HDBT transmitter.

RS232 (Control) Connects to the control device (e.g. PC) to control the unit by

sending RS232 commands.

5 DC 12V DC connector for the power adapter.

SYSTEM OPERATIONS

Signal Switching and Output Resolution

Signal Switching

Press the **SWITCH** button to toggle and select the HDMI or HDBT source, the corresponding blue activity LED (HDMI/HDBT) of the selected input will light up.

Alternatively, source input can be selected via RS232 command. Please refer to page 5 (Signal Switching) for more details.

Output Resolution List

There is a built-in scaler to up-scale or down-scale the input signal to a fixed output resolution. Ten output resolution options can be selected for the HDMI output via RS232 command. Please refer to page 5 (Output Resolution Selection) for more details.

The following table shows the list of available output resolution:

No.	Resolution list
1	4Kx2K@60Hz 4:4:4
2	4Kx2K@30Hz 4:4:4
3	1920x1080p@60Hz
4	1360x768@60Hz
5	1280x800@60Hz
6	1280x720@60Hz
7	1024x768@60Hz
8	1920x1080@50Hz
9	1280x720@50Hz
10	1600x1200@60Hz

SYSTEM OPERATIONS

RS232 Control

The RS232 port of iTrans 201S has two control methods.

- Local control: Connect the RS232 (Control) port to a control device (e.g. PC) to control the unit by RS232 commands.
- 2) Pass-through control: The RS232 (Passthrough) port is used with the RS232 port of far-end HDBaseT transmitter to control the third-party device (e.g. Projector)

RS232 Command

The command lists are used to control the scaler receiver. The RS232 control software (e.g. docklight) needs to be installed on the control PC to send RS232 commands.

After installing the RS232 control software, please set the parameters of the COM port, baud rate, data bit, stop bit and the parity bit accordingly to ensure that the software is able to communicate correctly with the device

Baud rate: 9600 Data bit: 8 Stop bit: 1 Parity bit: none

Note:

- All commands need to end with "<CR><LF>".
- In the commands, "["and "]" are symbols for easy reading and do not need to be typed in actual operation.
- Type the command carefully, it is case-sensitive.

6.1 System Control

Command	Description	Command Example and Feedback	
>UpgradeSoftware	Software upgrading	>UpgradeSoftware	
		<upgradesoftware< th=""></upgradesoftware<>	
>GetFirmwareVersion	Check the software version	>GetFirmwareVersion	
		<v1.0.0< td=""></v1.0.0<>	
>FactoryReset	Restore factory default	>FactoryReset	
		<factoryreset< th=""></factoryreset<>	
>GetStaus	Get the system status	<v1.0.0 </v1.0.0 	

6.2 Signal Switching

Command	Description	Command Example and Feedback
>SetVideo [Inparam]	Switch the HDMI output to HDBT or HDMI input. HDMI output can also be turn on/off. >SetVideo Inparam Inparam = 01, 02, ON, FF 1 - HDBT IN 2 - HDMI IN ON - ON FF - OFF	>SetVideo 01 <video 01="" 01<="" in="" out="" th=""></video>
>GetVideo	Get video switching status.	>GetVideo <video 01="" 01<="" in="" out="" th=""></video>

6.3 Output Resolution Selection

Command	Description	Command Example and Feedback
>SetOutputRES [param]	Set HDMI output resolution. >SetOutputRES param param = 01~10 01	>SetOutputRES 01
	05 - 1280x800@60 06 - 1280x720@60 07 - 1024x768@60 08 - 1080@50 09 - 1280x720@50 10 - 1600x1200@60	<outputres 01<="" td=""></outputres>
>GetOutputRES	Get HDMI output resolution.	>GetOutputRES <outputres 01<="" th=""></outputres>

6.4 Baudrate Setting

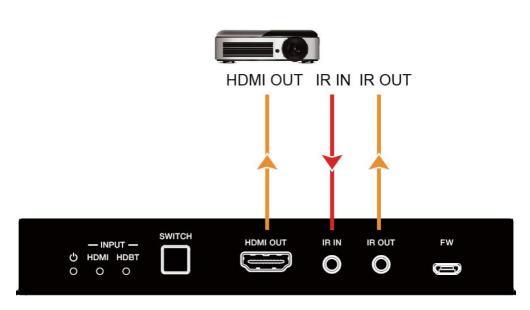
Command	Description	Command Example and Feedback
> CotDC222David Incorp.	Set the baudrate of RS232. >SetRS232Baud param	>SetRS232Baud 9600
>SetRS232Baud [param]	param = 9600, 19200, 38400, 57600, 115200	<rs232baud 9600<="" td=""></rs232baud>

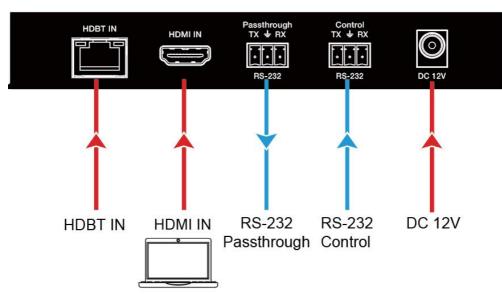
6.5 HDCP Setting

Command	Description	Command Example and Feedback	
>SetHDCPMode	Set HDCP mode of HDMloutput. >SetHDCPMode param param = 01 ~ 05	>SetHDCPMode 05	
[param]	1 - By Src 2 - Force HDCP1.4 3 - Force HDCP2.2	<hdcpmode 01="" 05<="" out="" sta="" th=""></hdcpmode>	

Command	Description	Command Example and Feedback	
	4 - HDCP OFF 5 - By Sink		
>GetHDCPMode	Get HDCP mode of HDMI output.	>GetHDCPMode <hdcpmode 01="" 01<="" out="" sta="" th=""></hdcpmode>	
>UpgradeHDCP2 2	Upgrade the key of HDCP2.2.	>UpgradeHDCP22 <upgrade hdcp2.2key<="" th=""></upgrade>	

DIAGRAM





SPECIFICATIONS Input 1×HDMI **VIDEO INPUT** 1×HDBT **Input Connector** 1×Type-A female HDMI 1×RJ45 Video input Video Resolution Up to 4K@60Hz 4:4:4 HDR (HDMI) Up to 4K@60Hz 4:2:0 (HDBT) **VIDEO OUTPUT** Output 1×HDMI **Output Connector** 1×Type-A female HDMI Video output Video Resolution Up to 4K@60Hz 4:4:4 HDR (HDMI) Up to 4K@60Hz 4:2:0 (HDBT) **CONTROL PART Control Port** 1×IR IN, 1×IR Out, 1×RS232 (Control) 1×RS232 (Passthrough), **Control Connector** 2×3.5mm jacks, 2×3-pin phoenix connectors **HDMI Version** Up to 2.0 **HDCP Version** Up to 2.2 **Bandwidth**

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18Gbps

HDBT Transmission Distance $1080p@60Hz \le 100 \text{ meters (328 feet)},$

 $4K@60Hz \le 70 \text{ meters } (230 \text{ feet})$

Operation Temperature -10 ~ +40°C (+14°F~ +104°F) **Storage Temperature** -15 to +55°C (-5°F to +131°F)

Relative Humidity 10% to 90%

External Power Supply 12V DC 1A **Power Consumption** 8W (max)

Dimension (W*H*D) 150 mm x 23 mm x 110 mm

Net weight 375 g

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