3G ULTRA Daisy-Chain Receiver

VBS-HDIP-509POE

Just Add ⊟Power

All Audio Capable With Network and POE Passthrough Receiver

The Just Add Power 3G Ultra 509POE Receiver distributes 4K video and supports all lossless audio formats over a single Catx cable.

The 509POE receives and processes a 4K or lower-resolution source from a Just Add Power Transmitter and distributes video to the designated display; features a network out port and DHCP integration; supports multiple receivers on single LAN port - along with all the 4K Receiver system wide features from the 3G Ultra product line.
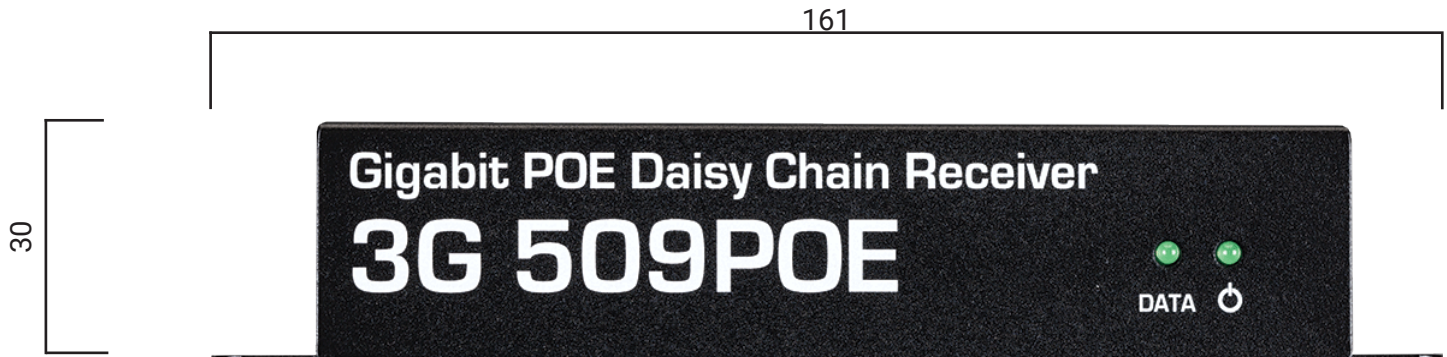
Features

DHCP Integration	Provide internet connectivity to a smart device through the same CATx cable that connects the Just Add Power matrix to that device using a DHCP server integrated Receiver		**Image Pull**	Preview an image from any source or display in any web browser or control system - up to 10 fps
			Integrated Endpoint Control	Control endpoints with RS232, IR and CEC
Image Pop	Display a custom logo or message as an overlay on any active screen		**Video Rotation**	Rotate your video by 90° for portrait or landscape display
Image Push	Load a custom default image or logo for when no source is displayed onscreen		**Video Wall**	Can use with 709P2P Transmitter for video wall function

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Daisy-Chain Receiver

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Front of Device:

161

30

Gigabit POE Daisy Chain Receiver
3G 509POE

DATA ⏻

All measurements in millimeters (mm)

Back of Device:

161

30

DC   1000BT LAN-IN   1000BT LAN-OUT   HDMI OUT   RS232

4.7~23V   POE-IN   POE-OUT   3G 509POE DAISY CHAIN RX
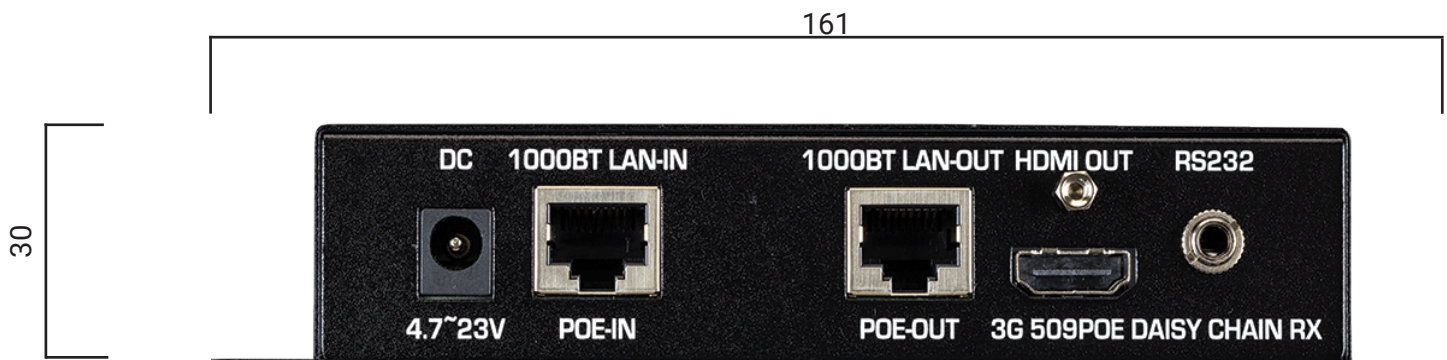
All measurements in millimeters (mm)

Specifications

Bandwidth	180-500 Mbps		**POE**	10 watts maximum
Compliance	HDCP 2.2 RoHS/FCC/CE		**POE Out**	30 watts maximum
Dimensions & Weight	161 x 30 x 123 mm 6.3" x 1.2" x 4.8" in 0.36 kg / 0.8 lb		**Ports**	Gigabit Ethernet In Gigabit Ethernet Out HDMI Out 3.5mm RS232 w/null modem
Encryption	AES-128 Encryption		**Power Supply (not included)**	~4.7-23V 5.5mm/2.1mm, Positive tip
Operating Temp	0-60 °C / 32-140 °F		**Supported Resolutions**	Up to 4096x2160 (interlaced & progressive)

Specifications

Encoding/Decoding

Video Codec	AGIC-G1 Proprietary Visually Lossless Video Codec
Audio Codec	Proprietary I2S Lossless Audio Codec
Bit Rates	300 to 850 Mbps
Latency	Ultra-low latency 16ms @ 1080p60 & 720p60 33ms @ 4K30
Streaming Protocols	IP, UDP, TCP, ICMP, IGMP
Copy Protection	HDCP 2.2, AES-128 Encryption

Video

Maximum Resolutions	High Dynamic Range HDR10 4K30 4:4:4 HDR 8-bit 4K30 4:2:0 HDR 12-bit 1080p60 4:4:4 HDR 12-bit
Input Signal Types (Encoder)	HDMI
Output Signal Types	HDMI
Scaler (Decoder)	720p up to 4K30 with many options inbetween

Audio

Input Signal Types	HDMI, Analog Stereo
Output Signal Types	HDMI, Analog Stereo
Digital Formats	Dolby Atmos, DTS:X, Dolby TrueHD, DTS-HD, Dolby Digital, Dolby Pro Logic, DTS, LPCM up to 8 channels
Analog Formats	Stereo 2-channel up to 96 kHz

Power

Power Consumption	10 watts maximum during operation 0 watts when idle

Compliance

	CE, FCC, RoHS

Communication & Control of External Devices

Ethernet	1Gb RJ-45 for control and AV
USB	USB 2.0
Serial/RS-232	Bi-directional control and monitoring
HDMI	CEC, EDID (Transmitter)
Infrared (IR)	Available with add-on

Connectors

LAN	8-pin female RJ-45 1000Base-T POE (802.3af)
HDMI Input	HDMI Type A female
HDMI Outputs (Transmitter loopout & Receiver output)	HDMI Type A female
RS232	3.5mm female
Stereo Output	3.5mm female
USB (Receiver)	USB Type-A female (x2)
USB (Transmitter)	Micro-USB female (x1)

Environmental

Cooling	Convection / no fan (no moving parts)
Temperature	0-60 C / 32-140 F
Heat Dissipation	34 BTU/hr
Acoustic Noise	0 dBA