

## HoloWAN High Precision WAN Emulators

Exceptional Performance, Easy to Use, cost-effective.

Emulates: Bandwidth, Latency, Packet loss,  
jitter, Other impairments.

Recruit global agency



# *HoloWAN*®

## WAN Emulator

## Product Data Sheets

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## Comparison of HoloWAN HPP models :

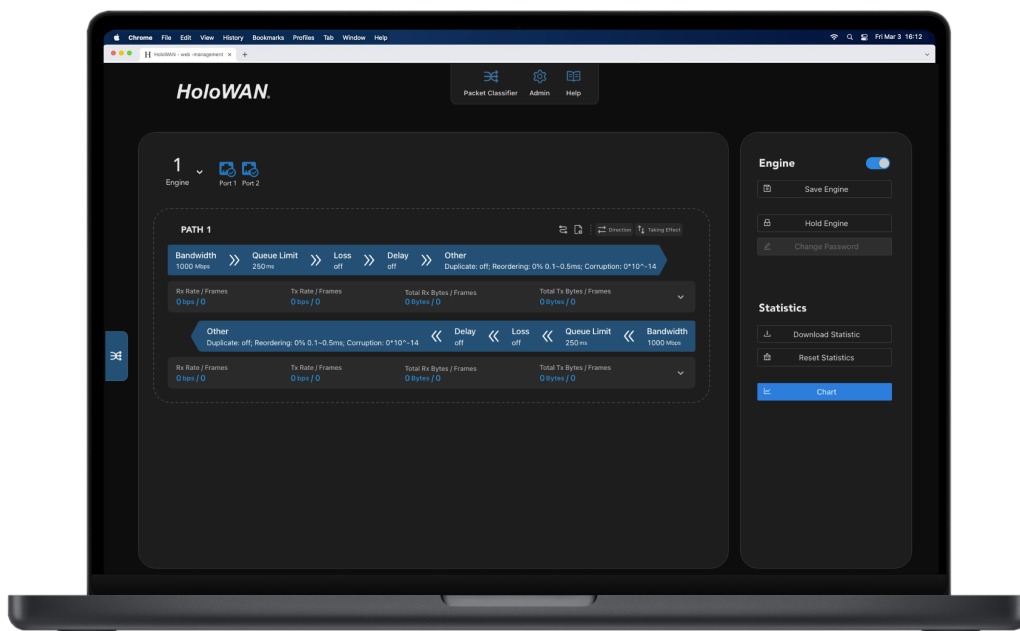
Models	10GEH	100GEH
<b>Capacity</b>		
Engine Number	2	2
Maximum Bandwidth	10Gbps	100Gbps
Path Number Of Per Engine	1	1
Maximum Packet Rate	30Mpps	300Mpps
<b>Emulation Capabilities</b>		
Bandwidth	Bandwidth Fixed	
Queue Limit	Drop Tail	
Corruption	Single , Burst , Cycle , Random	
Delay	Constant, Uniform , Jitter , Step	
Loss	Single , Burst , Cycle , Random , Possion	
Modify	Normal , Probability	
Reordering	Single , Cycle	
Duplication	Single , Burst , Cycle , Random	
Other Damage	Frame Overhead	
Packet Classification	IPv4 address, IPv6 address, MAC address, TCP/UDP/SCTP port number, RAW 1-Byte offsets, RAW 4-Byte offsets, Combination	
<b>Other Key Information</b>		
Size	2U	2U
Ethernet Ports	4 * SFP+ 10Gbps	4 * SFP+ 100Gbps
GUI	web	
Hardware Warranty	3 year	
API	restful API , python API	
Technical Support	API technical support, Remote technical support	

## HoloWAN HPP Features :

- **No installation required, easy to use** : HoloWAN HPP is a standalone device that can be powered on simply by plugging it in. Control of the device is done through a web-based GUI on a browser, eliminating the need for any additional installation or software programs.
- **Powerful Packet Classifier** : HoloWAN HPP supports packet classification based on IPv4 addresses, IPv6 addresses, MAC addresses, TCP/UDP/SCTP protocol port numbers, packet offset, and combination classification rules. It can accurately classify and forward packets to specific links, enabling precise impairment for each packet.
- **High-Performance Link, Industrial-Grade Network Simulation** : Different models of HoloWAN HPP are equipped with different business network ports, and the highest model can simulate a 0-100Gbps network link.
- **High Precision Latency** : HoloWAN HPP can add delay or delay jitter to each packet. The maximum delay can be added is 8 seconds, the delay control granularity is 1ns, and the delay accuracy is  $\pm 4$ ns. It supports four modes of delay jitter, ultra-high precision to meet industrial testing needs.
- **Packet Loss** : HoloWAN HPP supports true random packet loss and multiple packet loss modes, packet loss range is 0-100%, packet loss precision can reach 0.0001%.
- **Bit Error Rate** : HoloWAN HPP supports bit errors in the CRC and preamble fields of packets, with a bit error range of 0-100%.

- **Comprehensive impairment functionality** : HoloWAN HPP also supports packet modify, reordering, duplication, queue limit, frame overhead, background utilization, and MTU damage. The comprehensive impairment functionality can better simulate a real wide area network link.
- **OpenAPI** : HoloWAN HPP provides full access to every atomic function through Python API or Restful API, allowing for control and automation of testing through scripting, thus enhancing productivity.
- **Statistics list and charts** : HoloWAN HPP's statistics list provides real-time display of packet damage, allowing users to see the status of packet damage in real-time. It also allows users to save and download all the damage data since the device was started. The statistical charts show the variation of packet rate in the form of line graphs, helping users to better understand the damage situation and making testing simpler.

# Interface & Products :



## HoloWAN 10GEH

两个 10 Gbps 仿真引擎



## HoloWAN 100GEH

两个 100 Gbps 仿真引擎



## **HoloWAN HPP can be used in :**

- **simulate wireless networks,such as 2G、 3G、 4G、 5G**

Wireless networks such as 2G, 3G, 4G and networks have a lot of instability factors, and there are relatively large delays and delay jitters, packet loss, congestion and other phenomena. HoloWAN can simulate this complex network environment to verify the stability and adaptability of your wireless applications.

- **Industrial Network Simulation**

HoloWAN HPP supports simulating industrial-grade Ethernet of 10Gbps and 100Gbps.

- **High Bandwidth Application Testing**

Use HoloWAN to simulate real high-bandwidth networks, test the performance of applications such as video streaming services, big data analysis, cloud computing, and other applications that require large amounts of data transmission in real networks.

- **Evaluating the required network bandwidth**

Simulate bandwidth, delay and other loss characteristics. Determine how much bandwidth you need to keep your application running steadily.

- **Network Authentication**

When you are conducting network deployment and equipment selection between different offices of the company, you need to evaluate the delay, jitter, packet loss caused by various equipment or network

solutions, and how much bandwidth can provide the corresponding quality of service.

- **Product testing**

HoloWAN can be used to verify the true performance of network accelerator, application delivery equipment, compression equipment, WAN optimization equipment, flow control equipment, network behavior monitoring equipment, network security equipment, etc. in the WAN environment.

- **Application testing**

At the development stage of your C/S and B/S systems, use HoloWAN to simulate the actual network environment to adjust the algorithms and policies of the server and client systems.

For example, financial system, stock trading system, online banking, medical management system, etc.

- **Website Testing**

Use HoloWAN to simulate the actual network environment to verify whether your website platform will not stop because of the slow network connection.

- **Audio and video applications**

Test VoIP, Video over IP, and online games in a real network environment, such as Skype, QQ, Sohu HD, Sina HD, Shanda Games, Nine Cities, and Video Cloud.

- **Product demonstration**

When you need to show your customers the application of your product in the actual network, take the HoloWAN and your device.

## **Connect us :**

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