

U1 Test Module



The U1 L4-7 test card is a new-generation L4-7 testing card launched by Xinertai. It is designed to meet the performance and functionality testing needs of device manufacturers for mid-range and entry-level security devices as well as L4-7 network devices. In addition, it can be used to validate whether network systems in enterprise and data center deployments achieve their intended performance goals.



Key Features

- 1000M SFP/10G SFP+ (Fiber port)
- Supports L4-7 application protocol emulation
- Supports performance and capacity testing for network security devices
- Supports application server performance testing
- Supports network security testing
- Supports up to 1.5 million TCP CPS, 35 million TCP CC, 400000 HTTP CPS, 22 million HTTP CC, 19.2 Gbps HTTP throughput, 40000 HTTPS CPS, 900000 HTTPS CC, and 13 Gbps HTTPS throughput

Specifications

Hardware and electrical characteristics	
Port speed	10G/1G
Port density	4
Interface standards	1000BASE-SX、1000BASE-LX、10GBASE-SR、10GBASE-LR
User reservation	Reservation by port
Port speed switching	Auto-negotiation
Weight(kg)	1.8
Dimensions (WxHxD)	197mm X 271mm X 36.2mm
Temperature	0° C to 35° C
Humidity	20% to 85%
Max power consumption(W)	80W
Software	
Application	Supports protocol emulation for HTTP, HTTPS, TCP, FTP, DNS, UDP, SMTP, POP3, RTSP, SIP, MySQL, SSH, Telnet, TFTP, etc.
DDoS	Supports over 90 types of DDoS attack variants, including IP-based attacks (Fragmented IP Attack, IP Teardrop Attack), ARP-based attacks (ARP Flood Attack), ICMP-based attacks (ICMP Nuke Attack, ICMP Smurf Attack), TCP-based attacks (TCP ACK Flood Attack, TCP Fin Flood Attack), UDP-based attacks (DNS Flood Attack, Evasive UDP Attack), as well as L2/L4 protocol attacks and Slowloris attacks.
Virus and attack libraries	Includes a large number of virus samples and various vulnerability attacks.
Application Replay	Supports L4-7 application protocol replay.
One-Arm Test Scenario	Supports single-arm testing for various protocols, including HTTP, HTTPS, HTTP2, DNS, FTP, Radius, and others.
Mix Traffic	Supports mixed application traffic testing, and allows the simultaneous transmission of attack traffic.
Capture	
Capture	Supports five-tuple based filtering for packet capture and recording.
Software platform	
Client software	ALPS
API	RestfulAPI
GUI language	English, Simplified Chinese
Hardware platform	
Chassis	BigTao220
Chassis operating system	Linux CentOS7.X