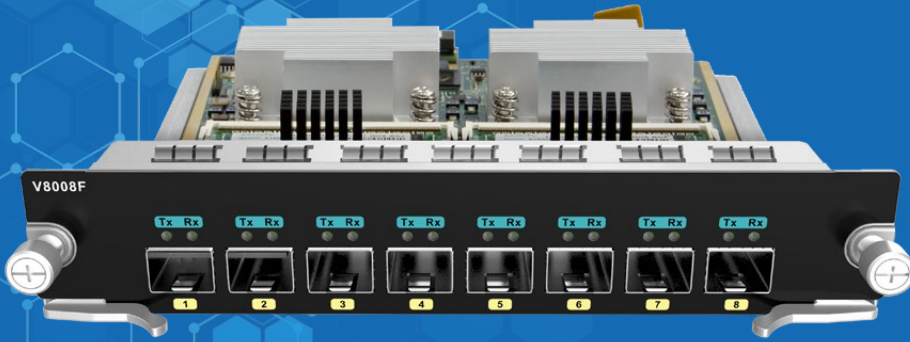


V8000 series board



The V8000 series test module is a new generation test board with a world-leading architecture. It can meet the needs of equipment manufacturers from basic functional test, compliance test and high-density port performance test requirements. At the same time, it can verify whether the network system can achieve the expected goals when deploying network solutions in enterprises, operators and data centers.

Key Features

- Support 10G SFP+ (optical interface)
- Support 10G RJ45 (electrical interface)
- Support L2-3 traffic test and protocol simulation
- 100% line-rate traffic generation, statistics and capture based on FPGA
- Supports RFC2544, RFC2889, RFC3918 and other benchmark test suites
- Support Chinese and English test software
- Support Chinese and English test report system

Model List



V8008F Test Module
8 Ports,SFP+ 10G functional Test Module



V8004F Test Module
4 Ports,SFP+ 10G functional Test Module



V8008D Test Module
8 Ports,SFP+ 1G/10G functional Test Module

Specification list

Hardware and electrical characteristics	
Port Speed	Copper cable media : 10G ; fiber cable media : 1G, 10G
Number of Ports	8 ports per card(MAX)
Interface Standard	1000M BASE-SX/LX、10GBASE-SR/SW、10GBASE-LR/LW、10GBASE-T
Port Reservation	Occupied by single port
Rate switching	self-adaption
Module weight (kg)	1.2
Module size (width * height * depth)	196mm x 35.5mm x 271mm
Range of working Temperature	0° C to 35° C
Range of Working humidity	20% to 85%
Maximum power consumption (watts)	29W

Traffic Generation	
Stream per port	256
Frame length (bytes)	60-16383
Frame Length Type	Support fixed, increasing, decreasing, random, automatic, IMIX and other frame length types
Jump	Each stream supports 4 jump fields; Support fixed, increasing, decreasing, list and random jump modes.
Transmitting Mode	Port-based Continuous transmission, Burst and Time burst Flow-based Continuous transmission and Burst
Load profile type	Port speed regulation and flow speed regulation
Latency and Jitter	Four delay test modes are supported: LIFO (Store-and-Forward), FIFO (Straight-Through Switching), LIFO and FILO
Frame Timestamp Resolution	8 nanoseconds
Frame Temple	A variety of newspaper templates are built in, such as VLAN, ICMP, PPPoE, GRE, DHCP, L2TP, IPv6, MPLS, GTP, GOOSE, VXLAN, OSPF, TCP, UDP...
Custom Packet	User-defined messages are supported, and the edited message template can be saved; Checksum checking of custom fields is supported.
User-Defined Data	Support user-defined message import of 16 kbytes, in which the first 256 bytes support configuration jump
Flow Control	Full duplex flow control
Error Frame	CRC error, undersize frame, oversize frame;
Traffic statistics	
Stream Per Port	1024
Statistical Mode	Statistics results can be displayed in the form of data table and graph. Statistics can also save Excel files automatically.
Statistics item (port)	Number of transmitted / received frames, transmitted / received frame rate, received bandwidth, Rx Filter Frames and custom statistics, FCS error statistics, TCP / UDP Checksum error, Rx Pause Frames, Port Average Latency Statistic, etc.
Statistics Item (stream)	Number of transmitted/received frames, transmitted / received frame rate, received bandwidth , error frame statistics, real-time packet loss statistics, out-of-order statistics, latency jitter, and custom statistics, etc.
Statistical Operation	Support sorting statistical results, performing mathematical operations such as addition, subtraction, multiplication, division, and custom paging statistics, etc.
Traffic Capture	
Capture Buffer/port(bytes)	1024M
Capture Type	Capture data and control plane receive frames Capture the transmit and receive frames of the control plane Frame capture based on filter template Frame capture based on error packet Support wrap capture Support to specify the number of download capture packets
Protocol Simulation	
Routing	RIPv1v2, RIPvng, OSPFv2, OSPFv3, ISISv4, ISISv6, BGP, BGP4+ , LDP, MPLS L3VPN, VPLS, VLL, 6VPE, 6PE
Access	PPPoE Client/Server, DHCPv4 Client/Server, DHCPv6 Client/Server, DHCPv6 PD Client/Server, L2TPv2, 802.1x
Multicast	IGMPv1/v2/v3, MLDv1/v2, IGMP/MLD Querier, PIM-SM
Data Center	VXLAN, OpenFlow, OVSDB, EVPN, LACP
Other	Automatic configuration of BFD, 802.1ag, 802.3ah and IPv6
Test Suite	RFC2544, RFC2889, RFC3918, Asymmetric Testing, Intelligent Script
Software Platform	
Client Software	Renix test platform: Support layer 2-3 traffic test and protocol simulation
API Secondary Development	TCL, Python3.x, GUIToTCL , GUIToPython
GUI Language	English, Simplified Chinese
Hardware Platform	
Chassis	BigTao220, BigTao6200
Chassis OS	Linux CentOS7.X