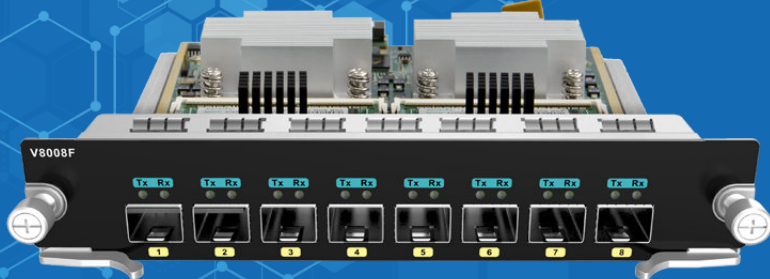


## V8000 Test Module



The V8000 series test module of Xinretai provides various specifications of ports (up to 8 ports), and can also be equipped with optical or electrical port mode according to actual needs. The V8000 series test module can provide a complete set of Layer2-3 layer based test plans, and each port supports line speed traffic generation and analysis, high-performance routing/multicast/user access simulation, etc.

### Key Features

- Supports 10G/1G SFP+/SFP
- Support L2-3 traffic generation and protocol emulation
- Support FPGA based 100% line rate traffic generation, statistics, and packet capture
- Support the benchmark test suites such as RFC2544, RFC2889, and RFC3918

### Models



**V8004F Test Module**  
4-port 10G SFP+ test module



**V8008F Test Module**  
8-port SFP+ 10G test module



**V8008D Test Module**  
8-port SFP/SFP+ 1G/10G test module

## Specifications

Hardware and Electrical Characteristics	
Port speed	1G/10G
Port density	Up to 8 ports
Interface standards	1000MBASE-SX/LX, 10GBASE-SR/SW, 10GBASE-LR/LW
User reservation	Reservation by port
Port speed switching	By port group(4 ports per group/V8008D)
Weight(kg)	1.3 ~ 1.4
Dimensions (W x H x D)	196mm x 35.5mm x 271mm
Temperature	0° C to 35° C
Humidity	20% to 85%
Max power consumption(W)	29W
Traffic generation	
Max streams per port	256
Frame length(byte)	58-16383
Frame length controls	Fixed, Increment, Decrement, Random, Auto, and IMIX
Dynamic fields	4 dynamic fields are available for each stream ; Support multiple dynamic controls such as Fixed, increment, Decrement, List, and Random.
Transmit mode	Continuous, Burst, and Time Burst modes based on port; Continuous and Burst modes based on flow
Bandwidth modification	Modify by port or flow
Latency and jitter	LIFO, FIFO, LILO, and FILO
Timestamp resolution	8 nanoseconds
Built-in protocol templates	VLAN, ICMP, PPPoE, GRE, DHCP, L2TP, IPv6, MPLS, GTP, GOOSE, VXLAN, OSPF, TCP and UDP, etc.
Customized frame	Support customizing the frame, and the edited frame template can be saved; Customized field can be checked with checksum.
Customized payload	Support importing the 32K bytes customized payload and the first 256 bytes can be adjusted with jumping
Packet error generation	CRC error, Undersize frame, Oversize frame
Flow control	Full duplex flow control, half duplex back pressure
Statistics	
Statistical streams per port	1024
Statistical pattern	Csv statistics, chart statistics, automatic saving of csv files
Statistics(Port)	Tx/Rx Frames, Tx/Rx Frame Rate, Rx Bandwidth, Error Frame Statistics, Filter Statistics, and Customized Statistics, FCS Error Statistics, TCP/UDP Checksum Errors, Pause Frame Statistics, etc.
Statistics(Flow)	Tx/Rx Frames, Tx/Rx Flow rate, Rx Bandwidth, Error frame statistics, Real-time packet loss statistics, out of order statistics, delay, jitter and customized statistics, etc.
Statistics operation	Support sorting of statistical results, performing mathematical operations such as addition, subtraction, multiplication, and division, and customizing the number of statistical entries for each page, etc.
Capture	
Capture buffer(Byte)	1024M
Capture pattern	Capture of data and receive frames of the control plane; Capture of transmitted and received frames of the control plane; Capture based on filter templates; Capture filtered error packets; Capture buffer overwriting; Support specifying the number of downloaded capture packets.
Protocol emulation	
Routing and MPLS	RIPv1v2, RIPv6, OSPFv2, OSPFv3, ISISv4, ISISv6, BGP, BGP4+, SR for BGP/OSPF/ISIS, SRv6 for ISISv6/BGP
Access	BGP SR TE Policy, LDP, MPLS IP VPN, 6VPE/6PE, BGP VPLS, LDP VPLS, PWE, LSP Ping
Multicast	PPPoE Client/Server, DHCPv4 Client/Server, DHCPv6 Client/Server, DHCPv6 PD Client/Server, L2TPv2, 802.1x
Data center	IGMPv1/v2/v3, MLDv1/v2, IGMP/MLD Querier, PIM-SMv4/v6, PPPoE over Multicast
other	VXLAN IPv4/IPv6, VXLAN EVPN IPv4/IPv6, OVSD, OpenFlow 1.3 Controller, BGP/EVPN for VxLAN, LACP
Test suites	BFD, 802.1ag, 802.3ah, IPv6 automatic configuration, Y.1731
	RFC2544, RFC2889, RFC3918, Asymmetric Test, Smart Scripser
Software platform	
Client software	RENIX
API	Tcl, Python3.x, GUIToTcl, GUIToPython
GUI language	English, Simplified Chinese
Hardware platform	
Chassis	BigTao220, BigTao6200