

V6000 series board

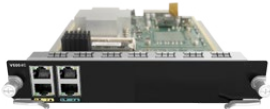


The V6 series board card is a new generation of test board card with global leading architecture, which can meet the requirements of equipment manufacturers from basic function test, consistency test to high-density port performance test. At the same time, it can verify whether the network system can achieve the expected goal when the enterprise, the operator and the data center deploy the network solution.

Key Features

- 10 / 100 / 1000M RJ45 self-adaption (electrical interface)
- 100 / 1000M SFP (optical interface)
- Support 2-3 layer traffic test and protocol simulation
- 100% line speed traffic generation, statistics and capture function based on FPGA
- Support RFC2544, RFC2889, RFC3918 and other benchmarking test suites
- Support Chinese and English operating software
- Support Chinese and English test report system

Model List



V6004C Test Module
4 Port , RJ45 1 Gigabit
Function Test Module



V6004F Test Module
4 Port , SFP 1 Gigabit
Function Test Module



V6008C Test Module
8 Port , RJ45 1 Gigabit
Function Test Module



V6016C Test Module
16 Port , RJ45 1 Gigabit
Function Test Module



V6008M Test Module
4 Port RJ45 and 4 Port
SFP 1 Gigabit Function
Test Module



V6016M Test Module
8 Port RJ45 and 8 Port
SFP 1 Gigabit Function
Test Module



V6016F Test Module
16 Port , SFP 1 Gigabit
Function Test Module

Specification list

Hardware and electrical characteristics	
Port Rate	electrical port : 10M/100M/1000M optical port : 100M/1000M
Port Density	up to 16 interfaces per slot(MAX)
Interface Standard	1000BASE-SX、1000BASE-LX、10/100/1000BASE-T、100BASE-FX
Port Occupancy	Occupied by single port
Rate Switching	Self-adaption
Module Weight (kg)	1.1
Module Size (w * h * d)	196mm x 35.5mm x 271mm
Operating Temperature Range	0° C to 35° C
Working Relative Humidity	20% to 85%
Maximum Power Consumption (W)	31 watts
Traffic transmission	
Number of Streams per Port	64
Frame Length Range (bytes)	Electrical port: 60-16383; 1000M optical port: 60-16383; 100M optical port: 60-9215.
Frame Length Type	Support fixed, increasing, decreasing, random, automatic,IMIX and other frame length types
VFDs Per Stream	Each stream supports 4 VFDs; Support fixed, increment, decrement, list and random modes.
Generation Model	Port-based: Continuous, Burst and Time burst Stream-based : Continuous, Burst
Speed Regulation Mode	Based on Port, based On Stream;
Delay and Jitter Settings	Four delay modes are supported: LIFO (store and forward), FIFO (cut-through), LIFO and FILO
Frame Time Stamp Resolutio	8 ns ;
Built-in Frame Template	Built-in multiple frame templates, such as VLAN, ICMP, PPPoE, GRE, DHCP, L2TP, IPv6, MPLS, GTP, GOOSE, VXLAN, OSPF, TCP, UDP.
Custom Data	Support user-defined message, and the edited message template can be saved; Support the checksum checking of user-defined field;
User Defined Data	Support 32k bytes user-defined data, in which the first 256 bytes support configuration jump
Error Frame	CRC error, undersize frame, oversize frame;
Flow Control	Full duplex flow control, half duplex back pressure;
Traffic Statistics	
Number of Statistics Streams per Port	256
Statistical Form	Table statistics, chart statistics, automatic saving of Excel files;
Statistics Item (port)	Tx/Rx frames, Tx/Rx frame rate, Rx bandwidth, error frame statistics, filtering statistics and custom statistics, FCS error statistics, TCP / UDP Checksum error, Pause frame statistics and average delay;
Statistics Item (stream)	Tx/Rx frames, Tx/Rx stream rate, Rx bandwidth, error frame statistics, real-time packet loss statistics, out of order statistics, delay jitter and custom statistics, etc;
Statistical Operation	Support sorting statistics results, adding, subtracting, multiplying and dividing, and customizing paging statistics quantity;
Traffic Capture	
Capture Buffer Size (bytes)	512M (per port)
Capture Type	Capture the Rx frame of data and control plane; Capture Tx and Rx frame of control plane; Capture frame based on filter template; Capture frame based on error message; Support cycle capture; Support downloading a specified number of captured messages;
Protocol simulation	
Routing	RIPv1v2、RIPng、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
Others	Automatic configuration of BFD, 802.1ag, 802.3ah and IPv6
Test Suites	RFC2544, RFC2889, RFC3918, Asymmetric Performance, Smart Script
software platform	
Client	Renix test platform: Layer2-3 traffic test and protocols simulation
API Development	TCL、Python3.x、GUIToTCL、GUIToPython
GUI Language	English, simplified Chinese
hardware platform	
Adaptive Chassis	BigTao220、BigTao6200
Chassis operating system	Linux CentOS7.X