BigTao-V series

V6000 Test Module



The V6000 is a new generation test module launched by Xinertel, which can meet the needs from basic function test, consistency test to highdensity port performance test. At the same time, it can verify network solutions when deployed in enterprises, operators and data centers whether its network system can achieve the expected goal.

Key features

- 10/100/1000M RJ45 auto-negotiation (cooper port)
- 100/1000M SFP (fiber port)
- 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
- Language for test software GUI: English and Chinese
- Language for test report: English and Chinese

Models



V6004C Test Module 4-port RJ45 1G test module



V6008C Test Module 8-port RJ45 1G test module





V6004F Test Module 4-port SFP 1G test module

V6008M Test Module 4-port RJ45 and 4-port SFP 1G test module



V6016M Test Module 8-port RJ45 and 8-port SFP 1G test module



V6016F Test Module 16-port SFP 1G test module



V6016C Test Module 16-port RJ45 1G test module



Specifications

Hardware and electrical	
Port speed	Cooper port: 10M/1000M; Fiber port: 100M/1000M
Port density	Up to 16 ports for single test module
Interface standards	1000BASE-SX、1000BASE-LX、10/100/1000BASE-T
User reservation	reservation by port
Port speed switching	Auto negotiation
Weight (kg)	1.1
Dimensions	196mm x 35.5mm x 271mm
(W*H*D)	
Temperature	0° C to 35° C
Humidity	20% to 85%
Max power	31W
consumption (W)	
Traffic generation	
Max streams per port	64/128(V6004C)
Frame length (byte)	Cooper port: 58-16383; 1000M fiber port: 58-16383; 100M fiber port: 58-9215
Frame length controls	Fixed, Increment, Decrement, Random, Auto, and IMIX 4 dynamic fields are available for each stream ; Support multiple dynamic controls such as Fixed, increment,
Dynamic fields	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
	CRC error, Undersize frame, Oversize frame
Flow control	Full duplex flow control, half duplex back pressure
Satistics	
Satistics	
Statistical streams per	256/512(V6004C)
Statistical streams per port	
Statistical streams per port Statistical pattern	Csv statistics, chart statistics, automatic saving of csv files
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Statistical streams per port Statistical pattern Statistics(Port) Statistics(Flow) Statistics operation Capture Capture buffer (Byte) Capture pattern Protocol emulation Routing and MPLS Access	Csv statistics, chart statistics, automatic saving of csv files 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. 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. 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 512M/1024M per port (V6004C) 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. RIPv1v2, RIPng, OSPFv2, OSPFv3, ISISv4, ISISv6, BGP, BGP4+, SR for BGP/OSPF/ISIS, SRv6 for ISISv6/BGP BGP SR TE Policy, LDP, MPLS IP VPN, 6VPE/6PE, BGPVPLS, LDPVPLS, PWE, LSP Ping PPPoE Client/Server、DHCPv4 Client/Server、DHCPv6 Client/Server、DHCPv6 PD Client/Server、L2TPv2、802.1x
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Statistical streams per port Statistical pattern Statistics(Port) Statistics(Flow) Statistics operation Statistics operation Capture buffer (Byte) Capture buffer (Byte) Capture pattern Protocol emulation Routing and MPLS Access Access Multicast Data center other Test suites Software platform Client software	 Csv statistics, chart statistics, automatic saving of csv files 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. 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. 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 512M/1024M per port (V6004C) 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. RIPv1v2, RIPng, OSPFv2, OSPFv3, ISISv4, ISISv6, BGP, BGP4+, SR for BGP/OSPF/ISIS, SRv6 for ISISv6/BGP BGP SR TE Policy, LDP, MPLS IP VPN, 6VPE/6PE, BGPVPLS, LDPVPLS, PWE, LSP Ping PPPoE Client/Server, DHCPv4 Client/Server, DHCPv6 Client/Server, DHCPv6 PD Client/Server, L2TPv2, 802.1x IGMPv1/v2/v3, MLDv1/v2, IGMP/MLD Querier, PIM-SMv4/v6, PPPoE over Multicast VXLAN IPv4/IPv6, VXLAN EVPN IPv4/IPv6, OVSDB, OpenFlow 1.3 Controller, BGP/EVPN for VxLAN, LACP BFD, 802.1ag, 802.3ah, IPv6 automatic configuration, Y.1731 RFC2544, RFC2889, RFC3918, Asymmetric Test, Smart Scripter
Statistical streams per port Statistical pattern Statistics(Port) Statistics(Flow) Statistics operation Capture Duffer (Byte) Capture buffer (Byte) Capture pattern Protocol emulation Routing and MPLS Access Access Multicast Data center other Test suites Software platform Client software API GUI language	 Csv statistics, chart statistics, automatic saving of csv files 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. 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. 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 512M/1024M per port (V6004C) 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. RIPv1v2, RIPng, OSPFv2, OSPFv3, ISISv4, ISISv6, BGP, BGP4+, SR for BGP/OSPF/ISIS, SRv6 for ISISv6/BGP BGP SR TE Policy, LDP, MPLS IP VPN, 6VPE/6PE, BGPVPLS, LDPVPLS, PWE, LSP Ping PPPoE Client/Server, DHCPv4 Client/Server, DHCPv6 Client/Server, DHCPv6 PD Client/Server, L2TPv2, 802.1x IGMPv1/v2/v3, MLDv1/v2, IGMP/MLD Querier, PIM-SMv4/v6, PPPoE over Multicast VXLAN IPv4/IPv6, VXLAN EVPN IPv4/IPv6, OVSDB, OpenFlow 1.3 Controller, BGP/EVPN for VxLAN, LACP BFD, 802.1ag, 802.3ah, IPv6 automatic configuration, Y.1731 RFC2544, RFC2889, RFC3918, Asymmetric Test, Smart Scripter
Statistical streams per port Statistical pattern Statistics(Port) Statistics(Flow) Statistics operation Capture Duffer (Byte) Capture buffer (Byte) Capture pattern Protocol emulation Routing and MPLS Access Multicast Data center Other Data center Other Test suites Software platform Client software API GUI language Hardware platform	Csv statistics, chart statistics, automatic saving of csv files 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. 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. 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 512M/1024M per port (V6004C) 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. RIPv1v2, RIPng, OSPFv2, OSPFv3, ISISv4, ISISv6, BGP, BGP4+, SR for BGP/OSPF/ISIS, SRv6 for ISISv6/BGP BGP SR TE Policy, LDP, MPLS IP VPN, 6VPE/6PE, BGPVPLS, LDPVPLS, PWE, LSP Ping PPPoE Client/Server. DHCPv4 Client/Server. DHCPv6 Client/Server, DHCPv6 PD Client/Server, L2TPv2, 802.1x IGMPv1/v2/v3, MLDv1/v2, IGMP/MLD Querier, PIM-SMv4/v6, PPPoE over Multicast VXLAN IPv4/IPv6, VXLAN EVPN IPv4/IPv6, OVSDB, OpenFlow 1.3 Controller, BGP/EVPN for VXLAN, LACP BFD, 802.1ag, 802.3ah, IPv6 automatic configuration, Y.1731 RFC2544, RFC2889, RFC3918, Asymmetric Test, Smart Scripter RENIX Tcl, Python3.x, GUIToTcl, GUIToPython English, Simplified Chinese BigTao220, BigTao6200
Statistical streams per port Statistical pattern Statistics(Port) Statistics operation Statistics operation Capture Duffer (Byte) Capture pattern Protocol emulation Routing and MPLS Access Multicast Data center other Test suites Software platform Client software API GUI language Hardware platform Chassis	 Csv statistics, chart statistics, automatic saving of csv files 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. 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. 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 512M/1024M per port (V6004C) Capture of data and receive frames of the control plane, ; Capture of transmitted and received frames of the control plane; Capture buffer overwriting; Support specifying the number of downloaded capture packets. RIPv1v2, RIPng, OSPFv2, OSPFv3, ISISv4, ISISv6, BGP, BGP4+, SR for BGP/OSPF/ISIS, SRv6 for ISISv6/BGP BGP SR TE Policy, LDP, MPLS IP VPN, 6VPE/6PE, BGPVPLS, LDPVPLS, PWE, LSP Ping PPPoE Client/Server, DHCPv4 Client/Server, DHCPv6 Client/Server, DHCPv6 PD Client/Server, L2TPv2, 802.1x IGMPv1/v2/v3, MLDv1/v2, IGMP/MLD Querier, PIM-SMv4/v6, PPPoE over Multicast VXLAN IPv4/IPv6, VXLAN EVPN IPv4/IPv6, OVSDB, OpenFlow 1.3 Controller, BGP/EVPN for VxLAN, LACP BFD, 802.1ag, 802.3ah, IPv6 automatic configuration, Y.1731 RFC2544, RFC2889, RFC3918, Asymmetric Test, Smart Scripter RENIX Tcl, Python3.x, GUIToTcl, GUIToPython English, Simplified Chinese