

# Veryx Hardware Test Platforms



High precision wire-speed Ethernet test platforms with flexible range of Ethernet/IP test features

**Veryx range of Hardware Test Platforms** offer high precision wire-speed traffic generation and packet capture solution to meet Ethernet and IP testing needs for applications such as Carrier Ethernet, Data center, Enterprise, Industrial Ethernet and Broadband Access

Veryx hardware test platforms come with a comprehensive traffic generation and packet capture toolkit, and are well optimized for SAMTEST service assurance solution.



- Test Probe / Traffic generator
  - 2 x 10 GbE SFP+ (electrical/optical)
  - Auto-negotiation – 1G, 10G
- Test Probe / Traffic generator
  - 4 x 1 GbE SFP (electrical/optical)
  - Auto-negotiation – 1G, 100M, 10M
- Test Probe / Traffic generator
  - PM Initiator/Reflector
  - 1 x 1 GbE (electrical)
  - Auto-negotiation – 1G, 100M, 10M

## APPLICATIONS

### ▪ PktBlaster Traffic Generation and Packet Capture toolkit

Veryx Hardware Test probes, by default include a PktBlaster toolkit, for stream-based wire-speed traffic generation and analysis required to perform high precision verification for stress and error conditions. With PktBlaster it is possible to define and generate hundreds of transmit and receive streams with their own unique traffic profiles using programmable packet field modifiers.

PktBlaster consists of an intuitive browser based GUI manager, supporting graphical views of histogram and interface statistics. PktBlaster also comes with TCL toolkit for custom test automation.

### ▪ SAMTEST - Testing and Diagnostics

Veryx VT-1004, VT-1020, and VT-201 Hardware Test Probes are deployed as probes in SAMTEST service design, activation, testing and diagnostics. The solution include pre-built automated test libraries for RFC2544, Y.1564, and MEF CE 2.0.

### ▪ SAMTEST – Monitoring and Diagnostics

Veryx VT-201 is deployed as Initiators and Reflectors in SAMTEST Monitoring solution for active monitoring and diagnostics with support for MEF 35.1, SOAM (Y.1731/802.1ag), ICMP, and UDP.

**PktBlaster - Traffic Generation and Capture**

**Transmission**

Transmission streams per port – 16  
 Field modifiers per stream – 8 (32-bit)  
 Burst Size – Maximum 2048 frames (1 MB total size)

**Reception**

Wire speed capture up to 128k packets  
 Port Statistics

Histogram Statistics

Packet editor with support for both protocol and byte-level packet definitions  
 Automatic protocol decoding of incoming packets  
 TCL toolkit for custom automation

**SAMTEST - Testing & Diagnostics**

L2/L3 Tests : RFC 2544, Y.1564, MEF CE 2.0

802.1ag/Y.1731, Smart Loopback

CE 2.0 service attribute verifications - VLAN/CoS Transparency, Bundling, MTU, Service Leakage, L2CP/SOAM handling etc.  
 Bandwidth profile and Ethernet/IP SLA measurements such as delay, jitter, loss, etc. Burst Testing as per MEF 10.2

Tagging Support: 802.1q, Q-in-Q  
 CoS – VLAN P-bits, DSCP, MPLS Experimental bits  
 Birth Certificates, Customer Portal, Graphical charts and PDF reports.

**SAMTEST - Monitoring & Diagnostics**

Active Performance Monitoring: MEF 35.1, SOAM (Y.1731/802.1ag), ICMP, and UDP  
 Auto diagnostics, Path discovery and path trace  
 Graphical charts and PDF reports.

**Physical**

**Dimensions**

VT-1004/VT-1020: 1.75"H x 17.5"W x 8.8"D (44.45mm x 444.5mm x 223.52mm)  
 VT:201: 5.78"H x 7.7"W x 1.61"D (147mm x 196mm x 41mm)

**Weight**

VT-1004/VT-1020: 10 Lbs.  
 VT-201: 2.2Lbs.

**Interface and Indicators**

VT-1020:  
 1xVGA Port, 2xRJ-45 GbE LAN ports, 2xUSB ports  
 Test ports: 2x10GbE SFP+

VT-1004:  
 1xVGA Port, 2xRJ-45 GbE LAN ports, 2xUSB ports  
 Test ports: 4x1GbE SFP

VT-201:  
 1xRJ-45 GbE LAN ports, 3xUSB ports  
 Test ports: 1GbE Electrical

**Power**

**Power Supply**

VT-1004/VT-1020: 160W, 100-240V AC  
 VT-201: 11.4W, 90-240V AC

**Environmental**

**Operating temperature**

0 to 40 degree Celsius

**Storage temperature**

-20 to 65 degree Celsius

**Regulatory**

FCC Class A, and CE Certified

**ORDERING INFORMATION**

PART NUMBER	PRODUCT
VT-1004-I-N4-1-SFP	4X1GbE Test Platform with PktBlaster Traffic Generation and Packet Capture toolkit
VT-1020-I-N2-10-SFP+	2x10GbE Test Platform with PktBlaster Traffic Generation and Packet Capture toolkit
VT-201-L	1x1G Test Platform with PktBlaster Traffic Generation, Packet Capture toolkit, and Performance Management (PM) Initiator / Reflector

Contact [sales@veryxtech.com](mailto:sales@veryxtech.com) for SAMTEST application related part numbers.

**About Veryx Technologies**

Veryx Technologies is a provider of innovative testing, automation and monitoring solutions for network service providers, cloud service providers, data centers, Enterprise IT and network equipment vendors. Veryx offers solutions for network testing, performance monitoring and equipment testing applications for technologies such as Carrier Ethernet, IP, Cloud, SDN, NFV and Smart Networks.

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