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iLu is pleased to announce the launch of the most innovative Ethernet Test Equipment, ETX3216 Series – Smart Ethernet Tester from Intellity Systems.



Intellity Systems

A base chassis is needed then combines with various modules to form Ethernet Test Equipment in different media type and speed mode. 10G/5G/2.5GBase-T (dual-port) and 10G Optical are supported now!!!

The dimension of Intellity Ethernet Test Equipment is: 290 (D) * 220 (W) * 43(H) mm. Each chassis is weighted around 2.4 Kg without any test modules installed, per test module is weighted around 0.25 Kg. Easy for hand carry!

An intelligent Ethernet Tester to Verify 10M/100M/1G/2.5G/5G/10G Network Devices

User Configurable Test Interfaces and Throughput, BERT, RFC 2544, RFC 2889 Tests





ETX-Explore, ETX-RFC2544 and ETX-RFC2889 software will be bundled with Ethernet Test Equipment, free of charge to adopt various user application.

In detail, if 12 ports of 1G SFP are needed, then 3 test modules of ETX3208-4GEF need to be purchased , one chassis of ETX3208-CHS is enough. On the other hand, if 24 ports of 1G SFP are needed, then 2 chassis are needed, 4 test modules could be installed in one chassis to form total 16 ports, two test modules should be installed in the second chassis to form total 8 ports. These 2 chassis can be connected through an Ethernet switch to a customer Windows PC which is running with the software released (bundled with the hardware, free of charge) by Intellisty Systems, Inc, ETX-Explore, or ETX-RFC2544, or ETX-RFC2889 for different test applications.

Detail:

Chassis and Modules

- 1U 4-Slot chassis with AC power supply and Ethernet management port
- 4 x 10/100/1000 BASE-T module
- 4 x 100/1000 BASE-X module
- 2 x 2.5G/5G/10G BASE-T module

Functions

- Real-time performance measurement of throughput, latency, packet jitter and loss
- Selectable 10M/100M/1G/2.5G/5G/10G line rate stream generation
- Layer 1 to Layer 4 BER test with 8 streams per port
- Independent stream configuration and measurement
- Packet generation in Constant, Ramp or Burst rate
- Smart and automatic Layer 1/2/3 Loopback
- RFC 2544 Benchmarking Methodology
- RFC 2889 LAN Switch Benchmarking Methodology
- High-precision individual port statistics
- Test profiles and measurement reports saving and transfer
- Validation of packet abnormality to each packet byte
- Packet capture with programmable filter and trigger criteria
- Companion PC management software for easy of use

Management Software

- Add multiple stations to edit configuration and generate test data
- View and manage station, port link status
- View the aggregate, individual stream Statistics for each test port
- Use Global statistics to view test data for selected ports across all stations by drag-and-drop operation from the station Explorer
- Save/Load test configurations in profile to/from PC to escalate test operation
- Copy test configurations across all interfaces for editing
- View/configure Station data in graphical Explorer window for run-time management
- RFC 2899 setup allows mapping the DUT to station port by simple drag-and-drop

Applications

Bidirectional or Round-Trip Measurement

With Bit-Error-Rate (BER) and RFC 2544 tests, major Ethernet parameters are measured with independent stream configuration and statistics for throughput validation.

Bit Error Rate Test (BERT), Packet Generation

Ethernet frames are carried across different physical media over long haul network in bit basis. BERT encapsulates pseudo-random binary sequence (PRBS) payload for frame based error and bit-error-rate tests to support bit-error accuracy measurement for validation of physical layer transport systems such as DWDM, Ethernet over DWDM or dark fibers.

RFC 2544 Benchmarking Methodology

Throughput, Latency, Frame Loss, Packet Delay Variation, Back-to-Back tests are included with user-configured bandwidth range, frame size, test duration, number of iterations and pass/fail threshold. ETX3216 supports bidirectional RFC 2544 tests. Each test iteration can be justified with pass/fail criteria based on the threshold value. Automatic test configuration can also be saved and executed without re-configuration.

RFC 2889 LAN Switch Benchmarking Methodology

RFC 2889 is for local area network switch testing. The RFC together define reliable, repeatable methods for evaluating Layer 2 switch performance in 10/100/1G/2.5G/5G/10G Ethernet performance. Fully, Partially and User Defined Meshed Test, Errored Framed Filtering, Broadcast Frame Forwarding, MAC Address Table Size, and Latency are covered under RFC 2889 Test suit.

General	10/100Base-T Ethernet management port
	290mm (D) x 220mm (W) x 43mm (H) (11.42" x 8.66" x 1.69")
	2.4 Kg (5.28lb) Chassis AC 100-240V
Test Mode	BER/Throughput packet generation and analysis
	Framed (Layer 2,3,4) and unframed (Layer 1) BERT
	Automatic Loopback (Layer 1,2,3) control
	RFC 2544 Benchmarking Methodology
	RFC 2889 LAN Switch Benchmarking Methodology
	Pause injection per stream with editable quanta
	Ping
	DHCP
	ARP
	IGMP v1/v2/v3
	MLD v1/v2
	LLDP (optional)
	Wireshark, .pcap packet re-generation with filter setup
In-service (passthrough) mode	
Packet capture	
Ethernet Performance Testing	8 streams per port, maximum 4 ports per module
	Framed (Layer 2,3,4) and unframed (Layer 1) BERT
	Independent Layer 1 to Layer 4 stream configuration and measurement
	Line-Rate Ethernet traffic generation
	MAC (802.3/Ethernet II, LLC/SNAP), VLAN, MPLS, IPv4 header, TCP/UDP header, PRBS or constant payload, packet length, bandwidth utilization and traffic shape are all user configurable
	Configurable payload (PRBS, Random, all 0s, all 1s, user pattern)
	Packet length (48 to 11,000 bytes)
	Continuous, Ramp, Burst, Random traffic patterns
	Bandwidth control 0.1% to 100% with 0.01% resolution, BPS, FPS
	3 VLAN tags (QinQ: TPID, priority, CFI, VLAN ID)
	3 MPLS labels (label, Exp., EoS, TTL)
IPv4 and IPv6 (optional)	
Continuous or timed measurement period	
Per-stream and aggregate Latency, error statistics, packet loss	
Link Control Auto Negotiation	Selectable port configuration, link control and media type (electrical or fiber) for link partnership validation at far end
	Auto Negotiation to reach the maximum speed available between connected interfaces
RFC 2544	Throughput test
	Latency test
	Frame Loss test
RFC 2888	Back-to-Back test
	Auto Test to setup 4 consecutive tests in batch mode
	Fully, Partially, User Defined Meshed Test, Error Framed Filtering
Smart Loopback	Broadcast Frame Forward, MAC Address Table Size and Latency Tests
	Layer 1, 2/3 Loopback
	Frame/packet performance and statistics
IP Test	Automatic (smart) Loopback
	Ping
	DHCP
	ARP
	IGMP v1/v2/v3
	MLD v1/v2
LLDP (optional)	
In Service Monitoring	In-line, Bi-directional packet capture and statistics

Please contact styven@ilucoltd.com for more detail and thanks!