

XM-23L4 / XM-23L4G

10/100/1000 Mbps ETHERNET TEST MODULES

FEATURES SUMMARY

- XM-23L4:
 - 4-Port 10/100/1000 Mbps UTP Ethernet Test Module
- XM-23L4G:
 - 4-Port 1000 Mbps Mini-GBIC Ethernet Test Module
- Flexible traffic generation and analysis
 - Real-time, wire speed generation and analysis of layer 2 and 3 traffic
 - Single / Burst /Continuous packet generation
 - Frame size from 48 to 16379 bytes
 - Varies multiple address fields to create millions of unique flow.
 - Random IFG generation support.
 - 802.3x flow control
- Extensive statistics
 - Real-time 64 bits counters that provide detailed statistics about every aspect of the packets being transmitted / received
 - External file logging for statistics
- X-Trailer for frame data integrity verification
- Generation and response to ARP and Ping for layer 3 testing

MAJOR BENEFITS

- High test quality & reliable test result – The test modules are specifically built for production tests at wire speed to ensure the quality and reliability of the test
- High test throughput – The modules can generate more packets than conventional PC based solutions in shorter periods of time and multiple DUTs can be tested simultaneously without causing degradation in test quality and test speed
- High density & low cost – A single NuStreams[®]-2000 chassis can accommodate up to 64 Fast Ethernet ports or 48 Gigabit Ethernet ports, thus reducing the per port cost of the tester
- Customizable test program –API (Application Programming Interface) support for modules to enhance the development of customized test programs. Includes a generic production test program with pre-defined templates to minimize the development effort

SOFTWARE APPLICATIONS

- NuWIN (virtual front panel for NuStreams[®])
- APMPPT (all purpose L2 mass production test program)
- NuAPI for C, C++ and TCL/TK

XM-23L4





XM-23L4G



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NuStreams[®]-2000/600 ETHERNET TEST MODULES

Model	XM-23L4	XM-23L4G
Photo		
No. of Test Port	4	4
Interface	RJ-45	Mini-GBIC
CPU	32 bits communication processor	
Speed and Mode	10/100 Mbps: Half / Full Duplex; 1000 Mbps: Full Duplex	1000Mbps Full Duplex Only
Auto MDI / MDIX	Yes	n/a
NWay	Enable / Disable	
Preamble	6 ~ 15 Bytes	
Frame Length	48 ~ 16379 Bytes(without CRC): Fixed / Increase / Decrease / Random	
Inter-frame Gap	Fixed / Random (10 Mbps: 880 ns ~ 1 sec; 100 Mbps: 880 ns ~ 1 sec; 1000 Mbps: 88 ns ~ 1 sec)	Fixed / Random (1000 Mbps: 88 ns ~ 1 sec)
Data Field	All zeros, All ones, 55, AA, 55AA, 5A5A, 00FF, 0000FFFF, 8-0's 8-F's, Fixed / increase / decrease / random in byte or in word; User defined;	
Error Generation	10/100 Mbps: No CRC, CRC Error, Alignment Error, IP Checksum Error, Dribble Error; 1000 Mbps: No CRC, CRC Error, IP Checksum Error	No CRC, CRC Error, IP Checksum Error
Data Integrity / Sequence Checking	Yes	
Source / Destination MAC Address	32 bits variation Fixed / Increase / Decrease/Random	
Source / Destination IP Address	16 bits bits variation Fixed / Increase /Decrease/ Random	
IPv4 checksum Generation	Hardware	
Hardware counters	TX Packet/Bytes, RX Packet/Byte, Unicast, Multicast, Broadcast, VLAN Packet, Pause Packet, CRC Error, DI Checksum Error, Serial Number Error, Alignment Error, Oversize Packet, Undersize Packet, Dribble Bit, IP Checksum Error, Trigger 1, Trigger 2, Trigger 3, Trigger 4, Trigger 5, Trigger 6, Trigger 7, Trigger 8, Collision TxArpReq, TxArpReply, RxArpReq, RxArpReply, TxICMPReq, TxICMPReply, RxICMPReq, RxICMPReply	
VLAN (VLAN ID / COS Field)	Fixed / Increase / Decrease / Random	
Flow Control	Asymmetric; Response to 802.3x Flow Control Frames (default as reception)	
QoS test	Up to 8 Priority Queues	
Line Performance	Wire Speed	

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