

XM-28L1CX4

10 Gigabit Ethernet Test Module for NuStreams®-2000/600

FEATURES SUMMARY

- Interface types: 4 x 3.125Gbps port with CX4
- Traffic generation capabilities:
 - Wire speed generation and analysis of layer 2 ~ 3 packets
 - Single / Burst / Multi-burst / Continuous packet generation
 - Frame sizes from 44 to 16388 bytes
 - Varies multiple address fields to create millions of unique flows
 - Random IFG generation support
 - 802.3x flow control
 - Independent operation in each module
- X-Trailer® for data integrity verification and sequence checking
- Generation and response to ARP and Ping for layer 3 testing
- Extensive statistics
 - Real-time 64-bit counters that provide detailed statistics about every aspect of the packets being transmitted / received
 - Automatic generation of test results in tabular formats within the NuStreams® software suites
- Professional software support for interactive and/or automated tests

MAJOR BENEFITS

- Most cost-effective 10G test solution off the shelf
- Wire speed generation and analysis of packets at speeds of up to 10Gbps
- Optimized testing
 - Validate the functionality and performance of network and networking devices at various speeds and load conditions
 - Perform deterministic and repeatable layer 2 to layer 3 tests for the most accurate test results
- Customizable test program – Supported by API for the development of customized test programs.
- A generic production test program with pre-defined templates is available to minimize development effort.

SOFTWARE APPLICATIONS


- NuWIN (for interactive functional testing)
- APMPPT (all purpose L2 mass production test program)
- NuAPI (Application Programming Interface) for C, C++ and TCL/TK
- NuApps-2544 (RFC-1242/2544) (* Available soon)
- NuApps-2889 (RFC-2285/2889) (* Available soon)



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XM-28L1CX4 10 Gigabit Ethernet Test Module

Photo	
Standard	IEEE 802.3ak-compliant 10GBASE-CX4
Interface	CX4
Speed and Duplex Mode	10Gbps / Full Duplex Only
Preamble	8 Bytes (Fixed)
Frame Length	40 ~ 16,384 Bytes (without CRC): Fixed / Increment / Decrement / Random / Loop
Transmit Mode	Single / Burst / Multi Burst / Continuous
Inter-frame Gap	9.6 nSec. ~ 1.073 Sec. Unit: Packets/Sec, %Utilization, Random, Databits/Sec, Frame bits/Sec, Total bits/Sec, nSec, uSec, mSec, Sec
Data Pattern	All zeros, All ones, Custom, Random, IP, UDP, UDP-RTP, TCP, ARP, RARP, ICMP, IPX, Pause, 555, AAAA, Incrementing byte, Incrementing word, Decrementing byte, Decrementing word, F0F0, 0F0F, FF00, FFFF0000, 0000FFFF, 8-F's 8-0's, 8-0's 8-F's
Error Generation	CRC Error, IP Checksum Error, Undersize, Oversize
Data Integrity Verification / Sequence Checking	Yes
Source / Destination MAC Address	Fixed / Increment / Decrement / Random
Source / Destination IP Address	Fixed / Increment / Decrement / Random
IPv4 / IPv6 Support	IPv4
802.1Q / MPLS / 802.1ad	Yes
Hardware Counters	Rx Frames, Rx Bytes, Undersize, Oversize, Broadcast, Multicast, Unicast, Pause, VLAN, IPv4, CRC Error, DI Checksum Error, Serial No. Error, IP Checksum Error, Rx ARP Requests, Rx ARP Replies, Rx ICMP Ping Requests, Rx ICMP Ping Replies, RxUDF 0 ~ 7, Tx Frames, Tx Bytes, Tx ARP Requests, Tx ARP Replies
RxUDF	Eight trigger states are provided for counting packets that appear in specific conditions.
StreamCounter	Support 4096 streams,
QoS Testing	Up to 8 Priority Queues
Line Performance	4x3.125 Gbps

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