

4-Port 10/100M ETHERNET TEST MODULES

FEATURES SUMMARY

- XM-22R4:
 - 4-Port 10/100Mbps Ethernet Test Module with RJ-45 connectors
- Traffic generation and analysis:
 - Synchronous generation and analysis of layer 2 to 7 traffic
 - Wire speed generation and capture or analysis of Ethernet traffic
 - User pattern based packet generation.
 - Single / burst / multi-burst / continuous packet generation
 - Generation of packets for protocols such as IP, UDP, IPX, TCP, IGMP, MPLS, VLAN, OSPF and user-defined protocols.
- Capturing capabilities:
 - Buffer Size: 8MB per port (up to 64k frames)
 - Full protocol decode suite supported by NuWIN
 - Capture Triggers: 8 Triggers per port with support logic operation.
- Plenty of counters including standard RMON, User trigger and other useful counters
- X-Trailer for frame data integrity verification
- Various protocols response including ARP and Ping
- BERT for transmission quality assurance for telecom users: PRBS 2⁷-1, 2¹⁵-1, 2²³-1, 2³¹-1

MAJOR BENEFITS

- Optimized for testing Ethernet device and environment.
- Layer 2 to 7 traffic simulation, including any user defined pattern or recently developed protocol.
- Each port is supported by processor, operating system, memory and network interface to ensure the performance of the flexibility of high throughput and transaction test applications.
- High density – up to 64 ports are supported in a single 4U NuStream-2000 chassis. Multiple NuStream-2000 chassis can be cascaded.
- Extensive per-port statistics and reports, including Real-time counters for Tx/Rx rates, Tx/Rx packet counts, errors, etc.

SUPPORTED APPLICATIONS

- NuWIN (virtual front panel for NuStreams®)
- NuApps-2889 (based on RFC2889 and RFC2285)
- NuApps-2544 (based on RFC1242, RFC2544)
- NuAPI (Application Programming Interface)
- Customized mass production test programs


XM-22R4



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NuStreams®-2000/600 10/100M ETHERNET TEST MODULES

Model No.	XM-22R4
Photo	
Ports per Module	4
Connector Type	RJ-45
Speed and Mode	10/100Mbps H/F Duplex Mode
CPU	MPC852T
Preamble	4 ~ 16 Bytes
Frame Length (w/o VLAN Tag)	48 ~ 2036 Bytes Fixed / Increase / Random / Loop / Decrease
Data Field	System defined/User defined/Random
Inter Frame Gap	Fixed /Random 100 Mbps: 480 ns ~ 2 sec
Error Generation	No CRC, CRC Error, Alignment Error, IP Checksum Error, Dribble Error
Data Integrity / Sequence Checking	Yes
Source / Destination MAC Address	Fixed / Increase / Decrease / Random Variable fields can be set depends on UI, max length of each field is 32-bit
Source / Destination IP Address	Fixed / Increase / Decrease / Random
IP/TCP Generation/Analysis	Hardware
VLAN (VLAN ID / COS Field)	Fixed / Increase / Decrease / Random
MPLS (Label / COS / TTL Field)	Fixed / Increase / Decrease / Random (No. of labels not limited)
Flow Control	Default as reception
Capture Buffer Size	8MB per port, (up to 64k frames)
Capture Mode	Event
Capture Event	All Condition, CRC Error, DI Error, Serial No. Error, Alignment Error, IP Checksum Error, Trigger 1 ~ 8, Trigger Logic, Any Defined Packet Size
QoS Testing	8 Priority Queues
Line Performance	Wire Speed

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