

XM-23R2 & XM-23R2G

2-PORT 10/100/1000M ETHERNET TEST MODULES

FEATURES SUMMARY

- XM-23R2 & XM-23R2G:
 - 2-Port 10/100/1000 Mbps Ethernet test module with RJ-45/Mini-GBIC 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: 63MB per port (up to 825K frames)
 - Full protocol decode suite supported by NuWIN
 - Capture Triggers: 8 Triggers per port with support logic operation.
- Plenty of counters include standard RMON, User trigger and other useful counters
- X-Trailer for frame data integrity verification
- Various protocol responses include ARP and Ping
- BERT for transmission quality assurance for telecom users: PRBS 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.
- High density – up to 32 ports are supported in a single 4U NuStreams-2000 chassis. Multiple NuStreams-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 RFC-2285 and RFC-2889)
- NuApps-2544 (based on RFC-1242 and RFC-2544)
- NuAPI (Application Programming Interface)
- Customized mass production test programs (NuApps-2544 and NuApps-2889 will be available soon.)



XM-23R2



XM-23R2G



NuStreams®-2000/600 10/100/1000M ETHERNET TEST MODULES

Model No.	XM-23R2	XM-23R2G
Photo		
Ports per Module	2	
Connector Type	RJ-45	Mini-GBIC
Speed and Mode	10/100Mbps H/F Duplex Mode 1000Mbps Full Duplex Mode	1000Mbps Full Duplex Mode
CPU	MPC852T	
Preamble	4 ~ 16 Bytes	
Frame Length	48 ~ 8192 Bytes Fixed / Increase / Random / Loop / Decrease	
Data Field	System defined/User defined/Random	
Inter Frame Gap	Fixed /Random 1000 Mbps: 48 ns ~ 0.2 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 48-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	Yes	
Capture Buffer Size	63MB per port, (up to 825K 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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