

XM-22R4F

4-PORT 100Mbps FIBER ETHERNET TEST MODULE

FEATURES SUMMARY

- 4 Fiber port 100Mbps Ethernet test module
- WDM, SFP(Mini GBIC),and SFF(customized) interfaces
- Traffic Generation and Analysis:
 - Wirespeed generation/ analysis of Ethernet traffic
 - Self-defined packet generation
 - Single/ burst/ multi-burst/ continuous packet generation
 - Packet- generation protocols are IP, UDP, IPX, TCP, IGMP, MPLS, VLAN, OSPF and user-defined protocols
- Capture Capabilities
 - Buffer size: 8MB per port (up to 104K frames)
 - Fully protocol decode suite supported by NuWindow
 - Capture triggers: 8 per port with supportive logic operation
- Useful counters include user trigger, standard RMON, and others
- Appendage X-trailer to verify data integrity
- Various protocol responses such as ARP and Ping
- BERT to assure transmission quality

MAJOR BENEFITS

- Optimized for Ethernet testing environment and devices
- Simulate layer 2 ~7 traffic including any user-defined pattern or recently developed protocol
- High-density supports up to 64 ports in a single 4U NuStreams-2000 chassis.
- Comprehensive statistics and data for each port, including real-time counters for Tx/Rx rates, Tx/Rx packet counts, error, replies, etc.
- FTTx CPE (XM-22R4F-WCO) and CO (XM-22R4F-WCP) traffic simulation

SUPPORTED APPLICATIONS

- NuWindow® (virtual front panel for NuStreams®)
- NuApps-2544 (based on RFC1242/ 2544)
- Switch Genius (based on RFC2285/ 2889)
- NuAPI (Application Programming Interface)
- APMPT (All-Purpose Mass Production Test Programs)

XM-22R4F-WCO



XM-22R4F-WCP



XM-22R4F-SFP



XM-22R4F-SFF



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NuStreams[®] -2000/600 100M ETHERNET TEST MODULES

Model No.	X M - 2 2 R 4 F
Ports per Module	4
Interface	WCO: 155Mbps Bi-direction SC receptacle single fiber transceiver, Tx1550, Rx1310 WCP: 155Mbps Bi-direction SC receptacle single fiber transceiver, Tx1310, Rx1550 SFP: User-selectable 100 Base-X SFP transceiver SFF: 100Base-X Fiber transceiver in 2x5 package style
Speed	100Mbps Fiber
CPU	MPC852T
Preamble	4 ~ 16 Bytes
Frame Length	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 depending 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	Yes
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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www.alloy.com.au

Melbourne

4/585 Blackburn Road
Notting Hill, VIC 3168
Tel: (03) 8562 9000
Fax: (03) 9561 7412

Sydney

99 Baxter Road
Mascot, NSW 2020
Tel: (02) 8080 9600
Fax: (02) 8080 9602

Canberra

2/42 Geills Court
Deakin, ACT 2600
Tel: (02) 6291 4922
Fax: (02) 6291 8100

sales@alloy.com.au

FREEcall 1800 817 807