# NuStreams®-85M

XTRAMUS®

Product Brief

## 2/4/5/8 PORTS 10/100 Mbps ETHERNET SWITCH TESTER

### FEATURES SUMMARY

- Standalone tester for testing 2, 4, 5, or 8 ports 10/100 Mbps Ethernet Switch
- Three built-in full duplex mode tests with pre-defined utilization, packet length, and padding:
  - Light Test: 70% utilization, random packet length, random padding
  - Heavy Test: 99% utilization, random packet length, random padding
  - Performance Test: Up to 100% utilization, 64 byte/1518 byte/random packet length, random padding
- User configurable parameters for light and heavy tests:
  - Number of tested ports: 2, 4, 5, or 8 ports
  - Packet transmission duration: 1, 2, 3,…, 8 seconds
  - Tolerance for lost packets: 0,10, 20,... , 100 packets
  - Enable/Disable of Broadcast Test and/or Half Duplex Mode Test,
- Statistics:
  - Per Port Counter
  - Test Summary
- User configurable parameters for Performance tests:
  - Packet Length and FDB Size
- Automatic determination of the performance and the latency of a DUT in Performance Test
- Built-in non-volatile memory for storing test settings

### MAJOR BENEFITS

- Simultaneous testing of all ports of a DUT at wire speed or near wire speed
- Time saving:
  - Automatic determination of the pass / fail status of a DUT in between 12 ~ 25 seconds (without Broadcast Test & Half Duplex Test) or between 21 ~ 38 seconds (with Broadcast Test & Half Duplex Test)
  - Easy to setup, configure and operate
  - Less than 15 seconds of configuration time for DUT model change
- Cost saving:
  - No need for developing test program / script
  - No special know-how needed for setup and configuration
  - High test throughput
  - Easy to maintain
- Cost-effective and user-friendly

### KEY APPLICATIONS

- Production testing and quality assurance during manufacturing process
- Performance validation for 2,4,5,8 ports Ethernet Switch
- Trouble shooting at service / maintenance outlets

## NuStreams®-85M

## OVERVIEW

# SPECIFICATIONS

| Model No. | NuStreams®-85M |
|---|---|
| Test Ports | 8 10/100 Mbps Ethernet ports with RJ-45 connector |
| Size (D x W x H) | 112mm x 157mm x 56mm |
| Net Weight | 832 g |
| Input Power | AC: 100V ~ 240V, 50Hz ~ 60Hz<br>DC: 9V |
| Temperature | Operating: 0°C ~ 40°C<br>Storage: 0°C ~ 50°C |
| Humidity | Operating: 0% ~ 85%, non-condensing<br>Storage: 0% ~ 85%, non-condensing |
| Power Consumption | 4.5W |

**NuStreams®-85M** is a standalone tester for testing 2, 4, 5, or 8 ports 10/100 Mbps Ethernet Switch at wire speed. The compact and light-weighted design and built-in tests make it an ideal solution for production test on production line and for performance analysis and trouble shooting at service centers or maintenance outlets as well.

Settings such as number of ports tested, packet transmission duration, half duplex more test, broadcast test, and the tolerance for lost packets are adjustable for individual test. No software effort or special technical know-how is needed for test setup.

**NuStreams®-85M** supports three built-in tests: Light, Heavy, and Performance. In Light and Heavy tests, packets are transmitted to the DUT for a user defined duration and a pass / fail indication is given at the end of the test.

Optional test items including Broadcast Test and Half Duplex Test are also supported for Light and Heavy tests.

In Performance test, a DUT's performance is automatically determined and its latency shown upon user termination of the test. Configuration of packet length (64 Bytes / 1518 Bytes / Random) and FDB Test are supported for Performance test.

It takes less than 15 seconds to configure **NuStreams®-85M**. Once the test settings are configured, no reconfiguration is needed for testing the same DUT model. The settings are kept in non-volatile memory and are automatically reloaded upon power on.

Depending on test settings, **NuStreams®-85M** can finish testing a DUT in between 12 ~ 38 seconds. It takes much less **NuStreams®-85M** to achieve or excess the test throughput of traditional PC based solution but at much higher test quality.

**NuStreams®-85M** is equipped with built-in LCD and beeper for test settings configuration and status indications. LED indicators for Power, Progress, Tx, Rx, Error, GO, and NG are also provided.



**Omnicor**
1170 Foster City Blvd., Suite 312
Foster City, CA 94404 U.S.A.

Tel: +1(650) 572 0122
Fax: +1(650) 572 0533
E-Mail: info@omnicor.com
www.omnicor.com