

Application Traffic Monitor

MD1230B-20, MP1590B-20

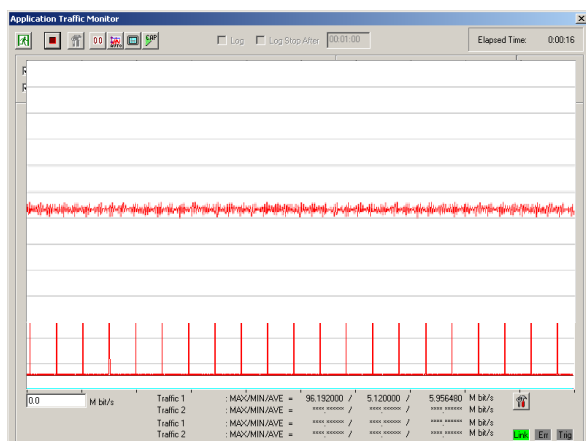
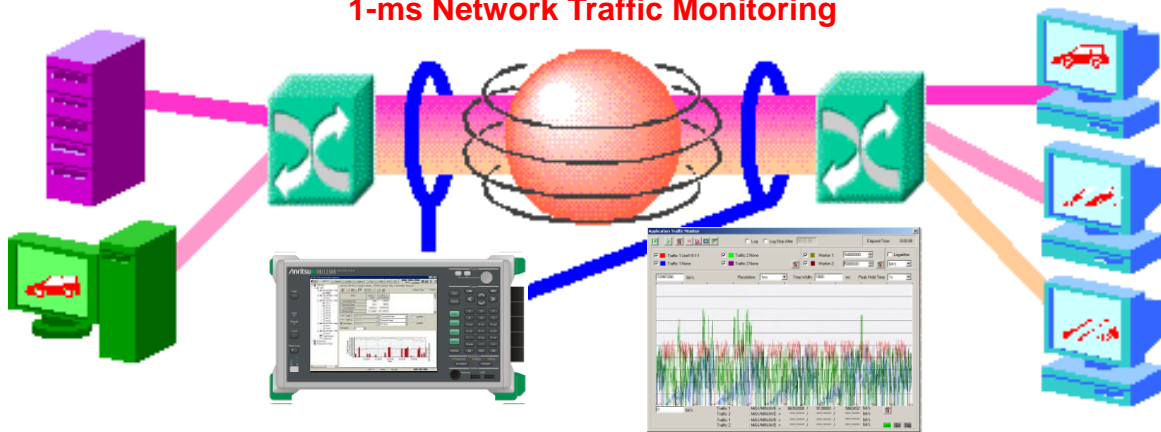
MD1230B, MP1590B

Data Quality Analyzer, Network Performance Tester

GbE Microburst Monitoring

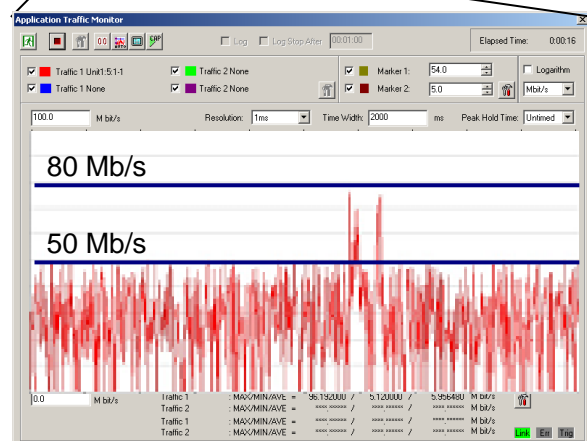
New streaming services like video on demand (VoD) as well as audio services like VoIP are starting to become widespread on the Internet. Such services require more accurate real-time monitoring and measurement of transmission delays than earlier services. However, previous traffic monitoring at a resolution of 1 s is unable to monitor transient burst signals and cannot provide assurance of strict bandwidth requirements. The Application Traffic Monitor function can measure microburst traffic with a resolution of 1 ms to assure the required network peak bandwidth for streaming, etc. This makes it perfect for network bandwidth design and construction as well as for performing network maintenance and management to assure there are no data dropouts. In addition to streaming, it is also ideal for guaranteeing bandwidth and network performance for voice and priority data right from the earliest stages of network and device bandwidth design.

1-ms Network Traffic Monitoring



Example:

At a measurement resolution of 1 s, 50-Mb/s traffic appears as a nearly flat band. When designing for a bandwidth of 50 Mb/s, this is hardly acceptable.



Error: The 1-ms resolution can be used to check peak bursts of 80 Mb/s. When designing for a 50-Mb/s bandwidth, it is possible to see dropped packets and network faults.

The 1-ms resolution of the Application Traffic Monitor helps assure the strict network peak bandwidth requirements for streaming that cannot be secured by previous 1-s traffic monitoring techniques, offering end users support for best network design solutions.

<Functions>

• Make streaming data analysis easy

The transmission performance of streaming data through the network under test can be analyzed easily by monitoring 1-Gb/s trunk systems and 100-Mb/s end-user systems simultaneously using the Application Traffic Monitor.

• Simultaneous Measurement of Four Traffic Streams

For example, a 1-Gb/s video stream on 1Port can be monitored simultaneously with three 100-Mb/s traffic flows on 3Ports.

• Capture function

Data can also be captured by using traffic overflow results as triggers.

• Save Log Data, Traffic Player to Check Log Data

Not only can monitored counts be saved to the HDD in real-time, but using this accessory log replay software enables logged data to be checked on a PC using the same GUI, simplifying report creation, etc.

• Better Operability with Data Display and Analysis during Measurement

Addition of a peak search function used with the auto-scaling display and marker functions makes it easy to check the entire waveform and compute peaks.

Specifications

MD1230B-20, MP1590B-20 Application Traffic Monitor	
Measurement resolution	1 ms
Display resolution	Select from 1 ms/10 ms/100 ms/500 ms/ 1s
Supported IP packets	IPv4, IPv6 (including L2 tags)
Log function	Depends on file system (OS) and HDD capacity [File system (OS)/Guaranteed monitoring hours (h)] [FAT32 (Windows 2000, Windows XP)/30 h] [NTFS (Windows 2000, Windows XP)/400 h>(*1)]
Log replay	Replay on the main display or an external PC with MX123001A or MX159001A
Graph display	Vertical axis: bit/s, Kbit/s, Mbit/s, byte/s, Kbyte/s, Mbyte/s Horizontal axis: Time (s)
Operation method	At main unit or by remote control from external PC via Ethernet
Supported main frames	MD1230B, MP1590B
Supported modules	MU120131A(*2)/32A(*2)
Supported version	Version 7.0 or later

*1: The MD1230B and MP1590B use Windows XP and the NTFS file system.

*2: Can use MU120131A/32A ports 1 to 4

Ordering Information

Model/Order No.	Name
— Options —	
MD1230B-20	Application Traffic Monitor
MP1590B-20	Application Traffic Monitor
— Software —	
MX123001A (*3)	Control Software
MX159001A (*4)	Control Software
— Accessories —	
W2134AW	Application Traffic Monitor operation manual

*3: Controlling the MD1230B from an external PC requires the main-frame option and the MX123001A Control Software.

*4: Controlling the MP1590B from an external PC requires the main-frame option and the MX159001B Control Software.

* For Application Traffic Monitor 10Gb inquiry, contact your sales representative.