
SHENICK
diversifEye™
Next Generation Network &
Applications Test Solution
Hardware Overview
PESQ 4.5
REALITY CHECKED
diversifEye™
Per flow Converged IP Network Test Systems

Hardware Overview

diversifEye is a completely integrated emulation and performance analysis solution

Shenick diversifEye is an integrated 'Per flow' test solution that permits active traffic emulation and QoS/QoE performance analysis on a per subscriber basis, from a single chassis. Applications include IPTV, Video On Demand (VoD), OTT, VoIP and high speed internet applications such as web, email, dns and P2P, TWAMP and TLS/DTLS/SSL/IPSec secure VPN testing.

diversifEye is used in 'Per flow' application emulation and performance analysis in many network environments including:

- DSL
- GPON
- CABLE
- WiMAX
- 4G / LTE
- Telepresence
- Security

Hardware Component Overview

diversifEye Master Controller

This interface provides all of the necessary management functions for the test environment including configuration, monitoring, storage of statistics and any external third party optional interfaces (example NMS/CLI). As a completely integrated network services test environment, diversifEye consists of a multi-user client-server architecture.

diversifEye Test Modules (Packet Processors)

A diversifEye Packet Processor (interface to the DUT/SUT) is a Layer 2-7+ single slot interface with dual copper and fibre port interfaces (1GbE test interfaces) or fibre only (10GbE test interface).

The Master Controller and the Packet Processor(s) are conveniently integrated into one chassis.

Essentially, users of diversifEye configure the test structure for the Packet Processors using a local client GUI, scripting or command line interface via the System controller.

diversifEye is available in a number of chassis forms, modules and port densities

diversifEye's Test Modules come in a range of port speeds:

- 1 Gbps
- 10 Gbps

Form Factors

A number of chassis and modules are available and come in a variety of form factors.

diversifEye 8400

diversifEye 5500

diversifEye's chassis are 19" rack mountable and vary in heights: Test Modules come in a range of port speeds:

- 8400 – 4U (supports 6 x 1GbE Packet Processors or 7 in daisy chained units)
- 5500 – 5U (supports 3 x 10GbE Packet Processors or 4 in daisy chained units)

diversifEye is a flexible and scalable solution

Scalability comes through 'rack and stack' of multiple chassis units. A key benefit of diversifEye's daisy chaining is the ability to control the stacked units from one central user interface.

Example scenarios:

- Daisy chain 4 x 8400 chassis
- Daisy chain 2 x 5500 chassis
- Daisy chain 1 x 5500 chassis and 1 x 8400 chassis
- Daisy chain 1 x 5500 chassis and 3 x 8400 chassis

General Details

Dimensions

- diversifEye 8400 – 4U - 7"(H), 19" (W), 12" (D)
- diversifEye 5500 – 5U - 8.5" (H), 19" (W), 15" (D)

8400 Onboard Status LCD

LCD screen displays the following information:

- Mac address and IP address of unit
- Number of available ports
- Test Modules status
- IP Addresses of connected users

Field Servicing

Field replaceable test port modules, power supply and main fan unit.

Hardware Requirements

For more details or assistance on selecting the exact hardware for your test requirements, please contact Shenick at info@shenick.com.

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