- Channelized LightSpeed1000™ Dual OC-3 / STM-1, OC-12 / STM-4 Tester
- Unchannelized LightSpeed1000™ Dual OC-3 / STM-1, OC-12 / STM-4 Tester
- Packet Delay Emulation for PoS and ATM based traffic
- PacketExpert™ 1G Optical and Ethernet Tester
- PacketExpert™ 1G
Optical Carrier, SONET, SDH Test Platforms

Channelized LightSpeed1000™ Dual OC-3 / STM-1, OC-12 / STM-4 Tester

GL’s LightSpeed1000™ - with quad optical ports supports Channelized SONET and SDH mapping to T1/E1 framing modes. LightSpeed1000™ supports direct access to all 336 T1s (or 252 E1s) channels on an OC-12/STM-4 line per port for analysis and simulation – all within a single PC. Main advantage is that any of the T1/E1 or DS0 test requirements can be met without resorting to electrical access.

Two ports out of the 4 ports are meant for SONET/SDH unchannelized and unframed data. The remaining two ports are meant for SONET/SDH channelized data of carrying many independent unframed/framed T1, E1, T3, and E3 streams.

For more details, visit [http://www.gl.com/OC3-OC12-analysis-emulation-card.html](http://www.gl.com/OC3-OC12-analysis-emulation-card.html)

Unchannelized LightSpeed1000™ Dual OC-3 / STM-1, OC-12 / STM-4 Tester

GL’s LightSpeed1000™ hardware platform (PCIe Card and USB Pod) is capable of OC-3/12 and STM-1/4 wire-speed processing on quad optical ports for functions such as wire-speed recording and wire-speed playback of Unchannelized ATM, PoS, and RAW Traffic.

For more details, visit [http://www.gl.com/OC3-OC12-analysis-emulation-card.html](http://www.gl.com/OC3-OC12-analysis-emulation-card.html)
Packet Delay Emulation for PoS and ATM based traffic

The Network Delay Emulator is an optional application (requires license) provides full duplex delay simulation for PoS and ATM based traffic from 1 ms to 500 ms, with incremental delays of 1 ms. The application combines hardware and software based functions to achieve precision and flexibility. It can emulate packet delays that occur over SONET/SDH carrying ATM/PoS traffic.

With this application, the user can:
- test the impact of delay and congestion under various real world conditions,
- assess impact of delay on SLA (Service Level Agreements),
- simulate satellite delay and long Fiber Loops
- test WAN application performance under deteriorated but repeatable conditions

For more details, visit https://www.gl.com/wirespeed-packet-delay-emulation-lightspeed1000.html

PacketExpert™ 1G Optical and Ethernet Tester

PacketExpert™ is a portable (USB based) Quad Port Ethernet / VLAN / MPLS / IP / UDP Tester with 4 Electrical Ethernet Ports (10/100/1000 Mbps) and 2 Optical Ports (1000 Mbps). The PacketExpert™ connects to a Notebook PC through a USB 2.0 interface.

Two of the 4 ports have both Electrical and Optical interfaces, enabling BERT and RFC 2544 testing on optical fiber links also. User selectabe Electrical and/or Optical interface for Port 2 and Port 3 allows mixed technology testing.

Optical Ports can operate in 1000 Mbps speed line rate in Full Duplex mode only.

For more details, visit http://www.gl.com/packetexpert.html
PacketExpert™ Next Generation 10G Ethernet/IP Tester

GL’s PacketExpert 10G™ (PXG100) provides comprehensive testing of 1000 Mbps and 10 Gbps wirespeed Ethernet/IP networks. It has two 10Gbps Optical ports, and two 1000 Mbps Electrical/Optical ports, which are capable of BERT, Smart Loopback, BERT/Loopback, and RFC 2544 test functionalities.

Each GigE port provides independent Ethernet/VLAN/MPLS/IP/UDP testing at wirespeed with applications such as BERT, Smart Loopback, BERT/Loopback, and RFC 2544. BERT is implemented for all layers. RFC 2544 is applicable for Layers 2, 2.5, and 3, and Loopback is applicable for Layers 2, 3, and 4.

For more details, visit http://www.gl.com/packetexpert-10g-optical-ethernet-tester.html

IPNetSim™ 1G/10G MultiStream - Rack System

GL’s PacketExpert 10G™ (PXG100) provides comprehensive testing of 1000 Mbps and 10 Gbps wirespeed Ethernet/IP networks. It has two 10Gbps Optical ports, and two 1000 Mbps Electrical/Optical ports, which are capable of BERT, Smart Loopback, BERT/Loopback, and RFC 2544 test functionalities.

Each GigE port provides independent Ethernet/VLAN/MPLS/IP/UDP testing at wirespeed with applications such as BERT, Smart Loopback, BERT/Loopback, and RFC 2544. BERT is implemented for all layers. RFC 2544 is applicable for Layers 2, 2.5, and 3, and Loopback is applicable for Layers 2, 3, and 4.

For more details, visit http://www.gl.com/packetexpert-10g-optical-ethernet-tester.html