



GX



GX, GX-S

Network Performance Element

Application Highlights

- Establish point-to-point and multi-point for SLA-backed Ethernet services
- Map any VLAN IDs to the same Ethernet Virtual Connection (EVC)
- Achieve total QoS visibility over multi-vendor networks
- Extend highly-resilient protected services in mobile backhaul and business services applications
- Deliver protected last-mile links
- Simplify troubleshooting of asymmetric services and networks

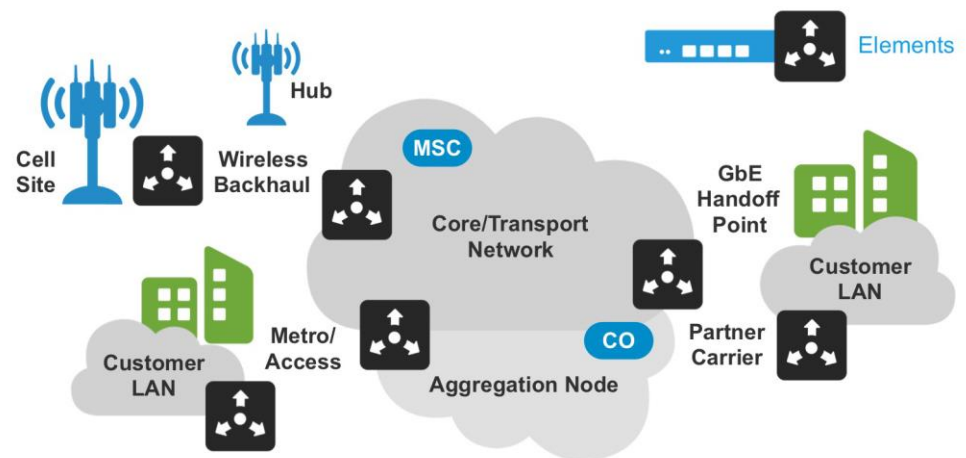
Ultra-low latency, hardware-based traffic conditioning and precise monitoring in a compact, standards-based Performance Element tailored for demanding carrier-grade Ethernet and IP services

High Density, Real-Time Network Edge Service Assurance

The GX Performance Element is a standards-based edge-networking solution for demanding, multiport applications. Integrated ring networking capabilities in these sophisticated yet easily deployed units overcome traditional scalability and density challenges associated with point-to-point links or hub-and-spoke architecture.

Agile and resilient, GX Elements allow operators to cost-effectively deliver business Ethernet and IP services with end-to-end SLAs by better monetizing their networks while keeping costs in check and protecting existing revenue streams. Microsecond-precise monitoring with wire-speed pass-through performance provides the necessary visibility to identify, isolate and quickly resolve issues.

To provide deployment flexibility, the GX comes in models with four or eight SFP ports, and option for integrated GPS, with integrated switch-free aggregation to eliminate the need for co-located switches or routers.



Service Creation and Delivery Applications

Y.1564 and RFC-2544 Automated Testing

Perform simultaneous service activation testing at Layer 2 and 3 of up to eight classes of service or eight distinct single-CoS services. Verify both service configuration and performance parameters. Measure and diagnose

throughput, delay, delay variation, frame loss, and back-to-back efficiency.

Switch-Free Aggregation

Implement connectivity between ports for delay-free, multi-port aggregation. Supports protected pair and ITU-T G.8032v2 protected rings.

Feature Highlights

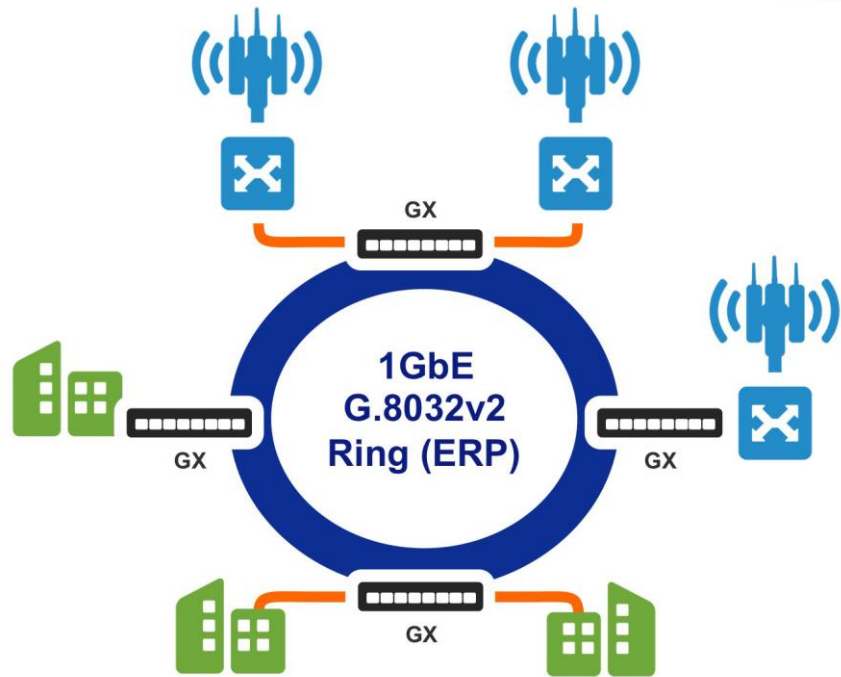
- Ethernet ring support for resilient & protected access
- Plug & Go™ zero-touch provisioning
- Programmable FPGA architecture
- Switch-free aggregation
- Granular Level 2-4 traffic conditioning

Standards-Based Features

- Ethernet Service OAM feature set (Layer 2)
- ITU-T 8031v2 ring protection
- Jumbo Frames support up to 10,240 bytes
- MEF 2.0 Certified hierarchical QoS support
- MEF 9 and MEF 14 compliant
- SNMP v1 and v2c support
- TWAMP Light monitoring support (Layer 3)

1GbE Ring Protection

Extend highly resilient, protected Ethernet services to support Carrier Ethernet applications like mobile and small cell backhaul, vCPE and business services applications. Use GX units standalone to deliver services to multiple cell sites or subscriber locations.



Traffic Monitoring and Conditioning Applications

Service Mapping

Apply C/S VLAN tags (selective push) and/or configurable service class to detailed Layer 2, 3 and 4 criteria. Map arbitrary set of VLANs to the same Ethernet Virtual Connection (EVC).

Bandwidth Policing

Supervise carrier Ethernet service provisioning and on-demand/incremental service upgrades by setting upstream and downstream CIR/EIR limits and applying that criteria to all traffic, or selectively.

Wire-Speed Filtering

Filter Layer 1, 2, 3 and 4 traffic at wire speed. Applies to L2CP, BDPU, per VLAN,

Ethertype, Protocol type, MAC, IP, or User Defined.

Tapping and Monitoring

Use intelligent loopbacks to monitor and measure per-flow statistics for delay, delay variation, frame loss and continuity, including 1-way performance validation with microsecond resolution. Deliver real-time SLA assurance over any network. This applies to unidirectional or bidirectional traffic for multi-flow, multi-service, multi-site performance assurance. GX units respond to in-band loop-up commands from most third-party Ethernet test sets and monitoring systems, as well as via ITU-T Y.1731 standards & IEEE 802.3ah.

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