Forward Error Correction (FEC) Capabilities in PacketExpert™ 100G

2 x 100G ports
or
2 x 1G Ports
2 x 10G Ports
2 x 25G Ports
2 x 40G Ports
2 x 50G Ports
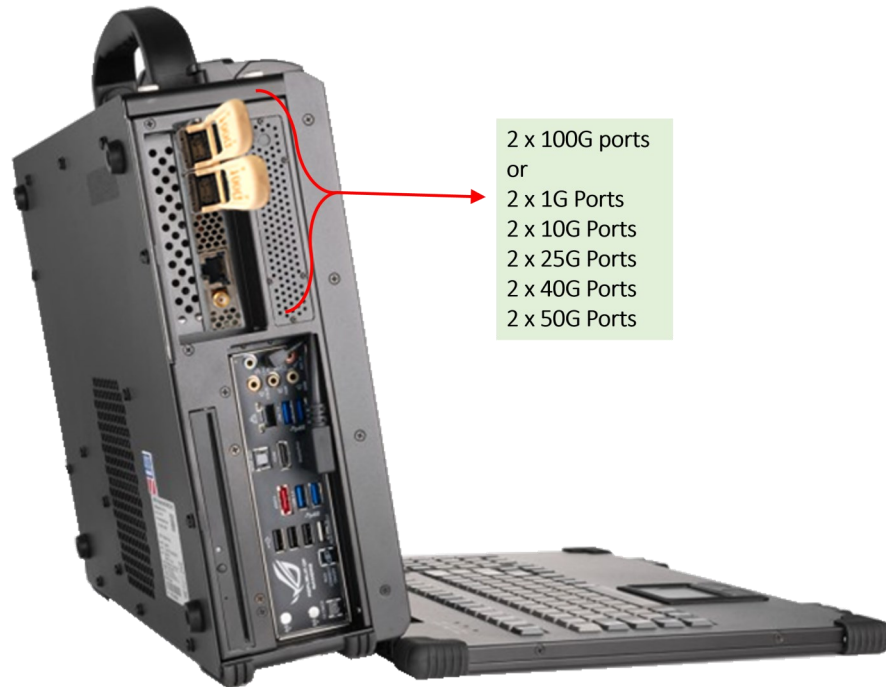
Overview

PacketExpert™ 100G provides robust support for Forward Error Correction (FEC), meeting the requirements of IEEE 802.3. This essential feature ensures data integrity in high-speed networks, particularly for long-distance transmissions. FEC improves network reliability and performance by detecting and correcting bit errors during data transfer. By incorporating additional information to identify and resolve errors, FEC enhances the dependability of data communication, minimizing the risk of data loss or corruption.

PacketExpert™ 100G supports Fire Code FEC, RS-FEC (528, 514), and RS-FEC (544, 514), ensuring compatibility with a wide range of interfaces like 10G, 25G, 40G, 50G and 100G.

For more information, visit PacketExpert™ 100G- Comprehensive Ethernet/IP Testing Solution webpage.

Main Features

- **Error Correction:** FEC helps in correcting errors in data transmission, which is crucial for maintaining data integrity and performance in high-speed networks.
- **Supported Types:** Supports Fire Code FEC, RS-FEC (528, 514), and RS-FEC (544, 514), ensuring compatibility with a wide range of interfaces.
- **Supported Rates**: FEC is supported on 10G, 25G, 40G, 50G and 100G rates.

GL Communications Inc.

818 West Diamond Avenue - Third Floor, Gaithersburg, MD 20878, U.S.A

(Web) www.gl.com - (V) +1-301-670-4784 (F) +1-301-670-9187 - (E-Mail) info@gl.com

Supported FEC Types in PacketExpert™ 100G

Forward Error Correction (FEC)	
100G	• Clause 91 RS-FEC(528,514)
50G	• Clause 134 RS-FEC(544,514) • Clause 91 RS-FEC(528,514) - (Ethernet Consortium specification) • Clause 74 Fire Code FEC - Used for DAC cables and AOC cables (Ethernet Consortium specification)
40G	• Clause 74 Fire Code FEC - Used for DAC cables and AOC cables
25G	• Clause 108 RS-FEC(528,514) • Clause 74 Fire Code FEC - Used for DAC cables and AOC cables
10G	• Clause 74 Fire Code FEC - Used for DAC cables and AOC cables

Note: FEC supports IEEE specifications unless mentioned otherwise.

Buyer's Guide

Item No	Product Description
PXX100	PacketExpert™ 100G Platform (1G, 10G, 25G), All Port BERT, BERT/Loopback, RFC2544, Y.1564
PXX101	Basic Software (Required for PXX100)

Note: PCs which include GL hardware/software require Intel or AMD processors for compliance.

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