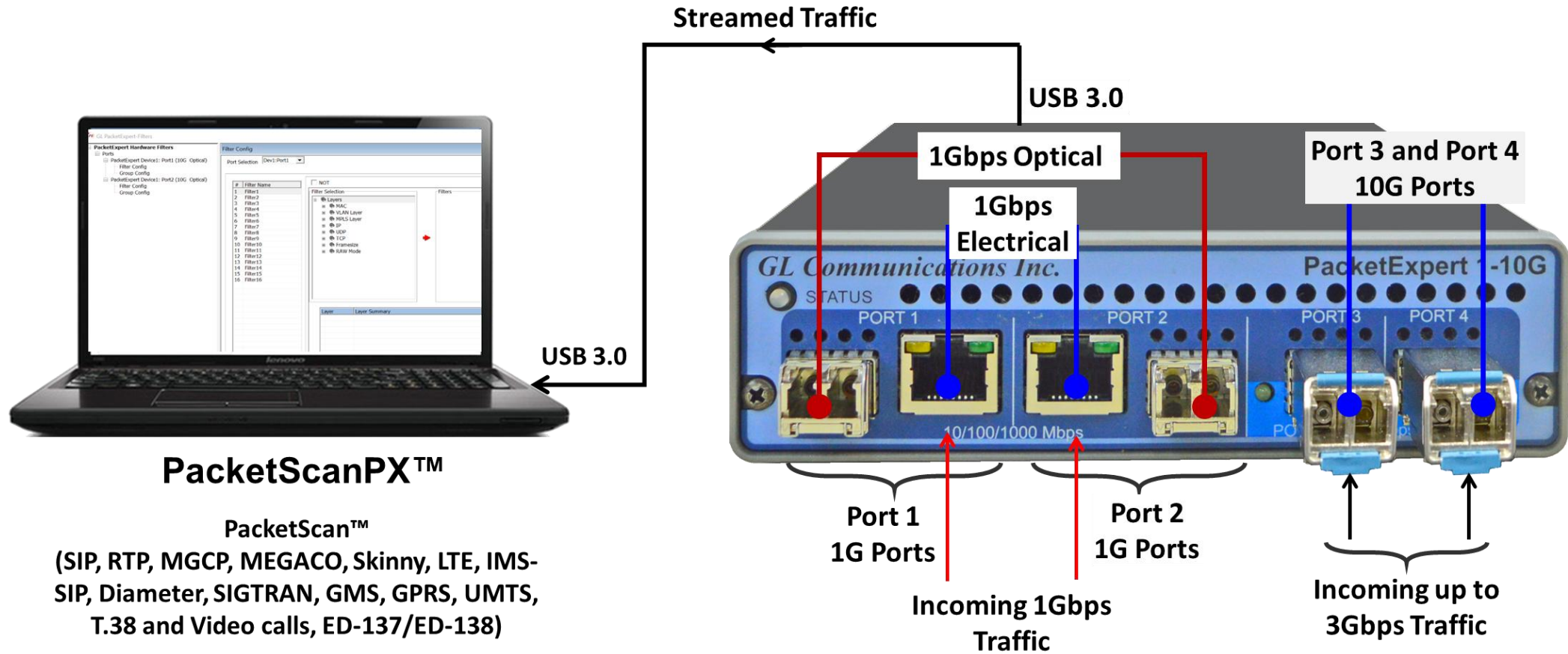

PacketScanPX™ – Wirespeed Capture and Filter Analysis

April 10, 2026



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Phone: (301) 670-4784 Fax: (301) 670-9187 Email: info@gl.com
Website: <https://www.gl.com>

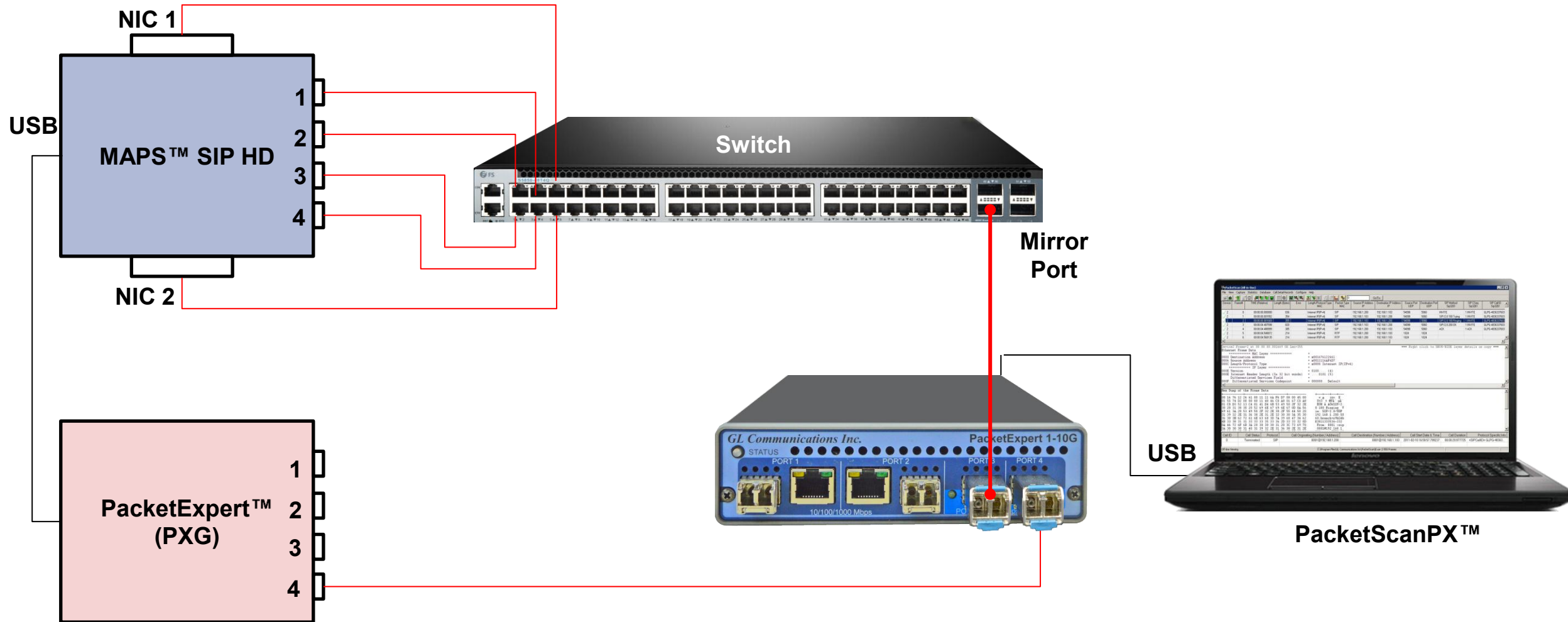
PacketScanPX™



Main Features

- Combines PacketExpert™ hardware-assisted wirespeed capture with PacketScan™ deep protocol analysis in a single integrated application
- Supports hardware-assisted capture up to 3 Gbps wirespeed
- Enables selective capture using hardware-level filtering (up to 16 filters per port)
- Provides nanosecond-level hardware timestamping for accurate delay, jitter, and call-flow timing analysis
- Performs deep packet inspection across VoIP, SIP, IMS, LTE, 5G, SIGTRAN, and IP networks
- Displays call ladder diagrams and session-level correlation for faster troubleshooting
- Generates KPIs such as call success rate, setup time, packet loss, latency, jitter, and MOS
- Supports filter-based capture using MAC, IP, VLAN, MPLS, TCP/UDP ports, and protocol fields
- Reduces packet loss during capture using hardware-assisted selective filtering
- Enables portable high-speed capture and protocol analysis for lab and field deployments

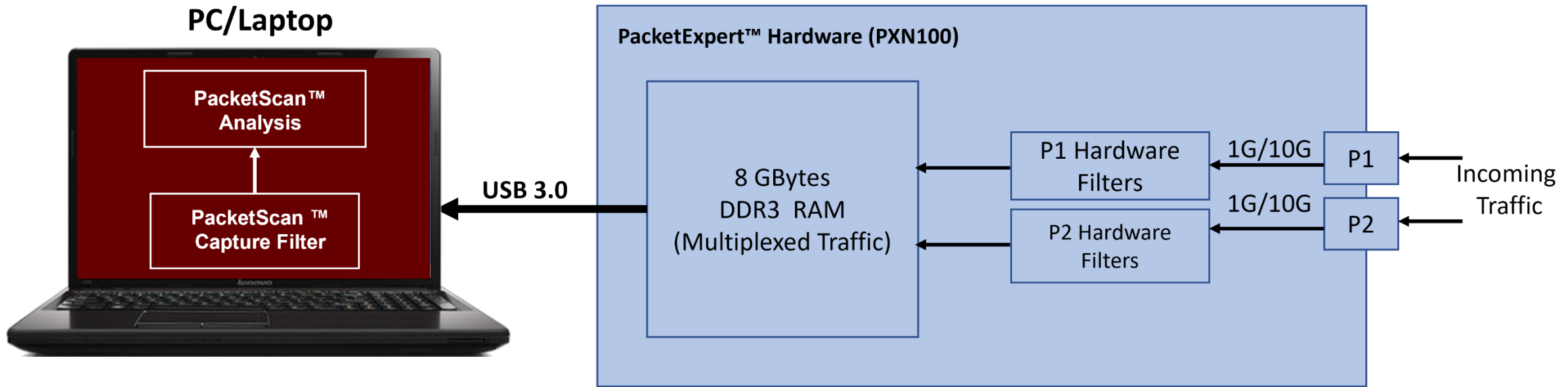
PacketScanPX™ Lab Setup



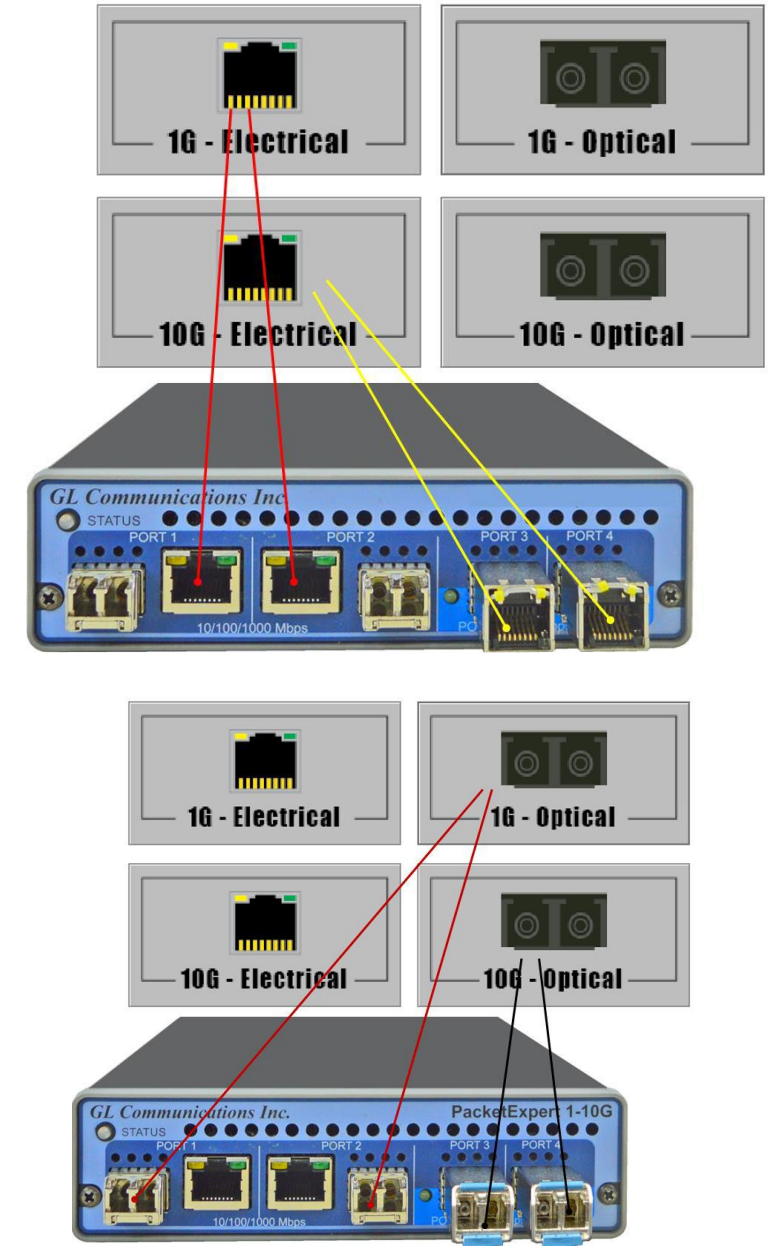
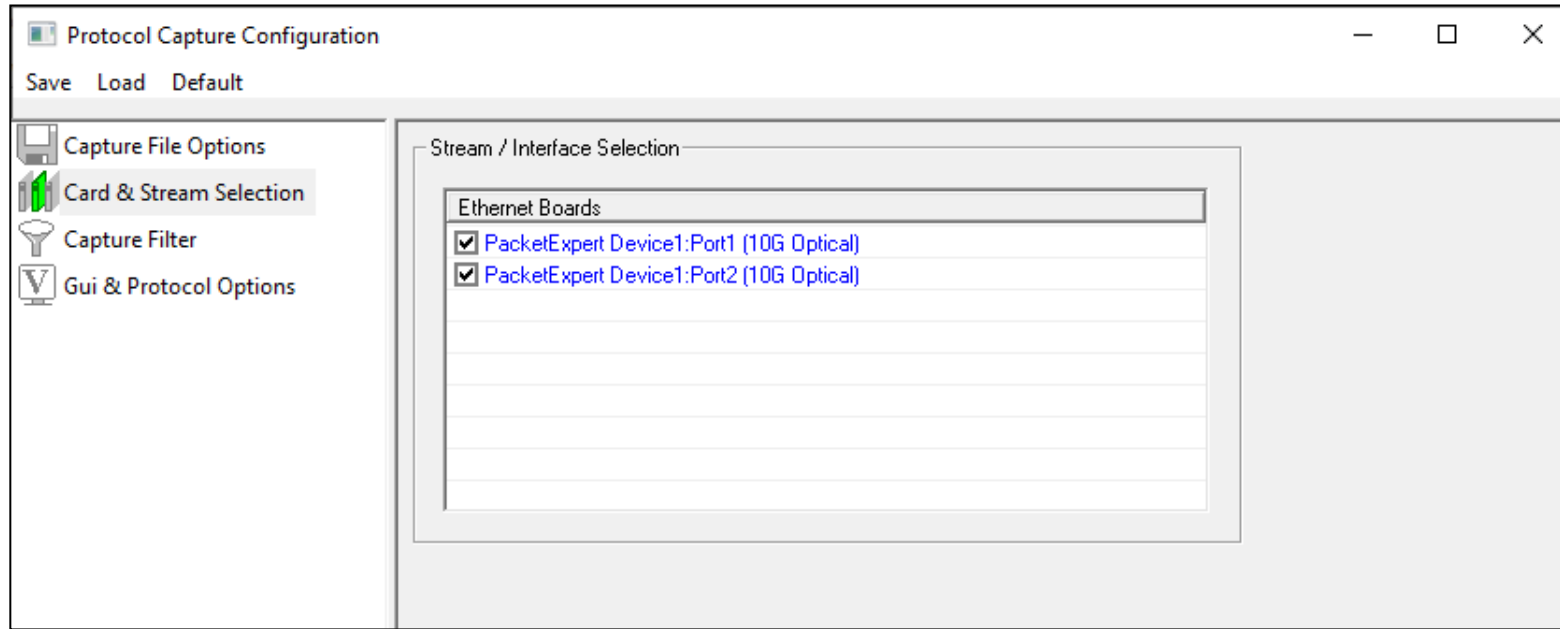
PacketScanPX™- Licenses

- PKV100 - PacketScan™ (Online and Offline)
 - Other PacketScan™ feature specific optional licenses are applicable
- PXN100 - PacketExpert™ 10GX (warranty only)
- PXN101 - 10G option for PXN100 (license + warranty)
- PXN105 - Wirespeed Record / Playback (license + warranty)

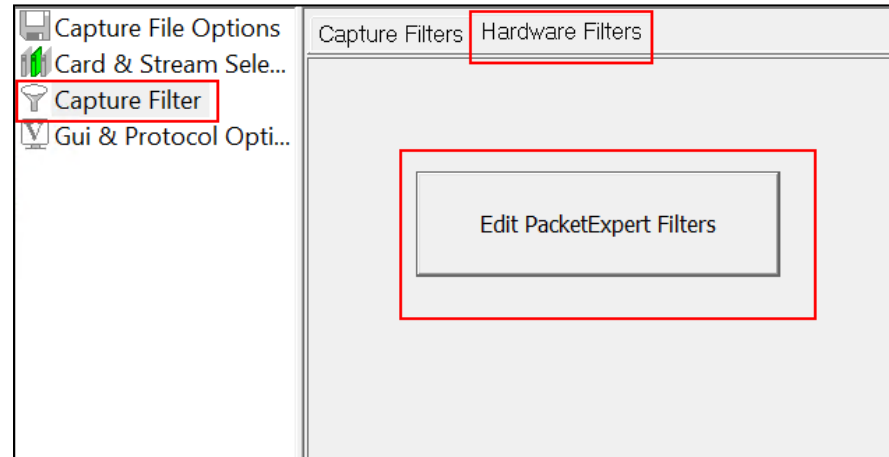
PacketScanPX™- General Architecture



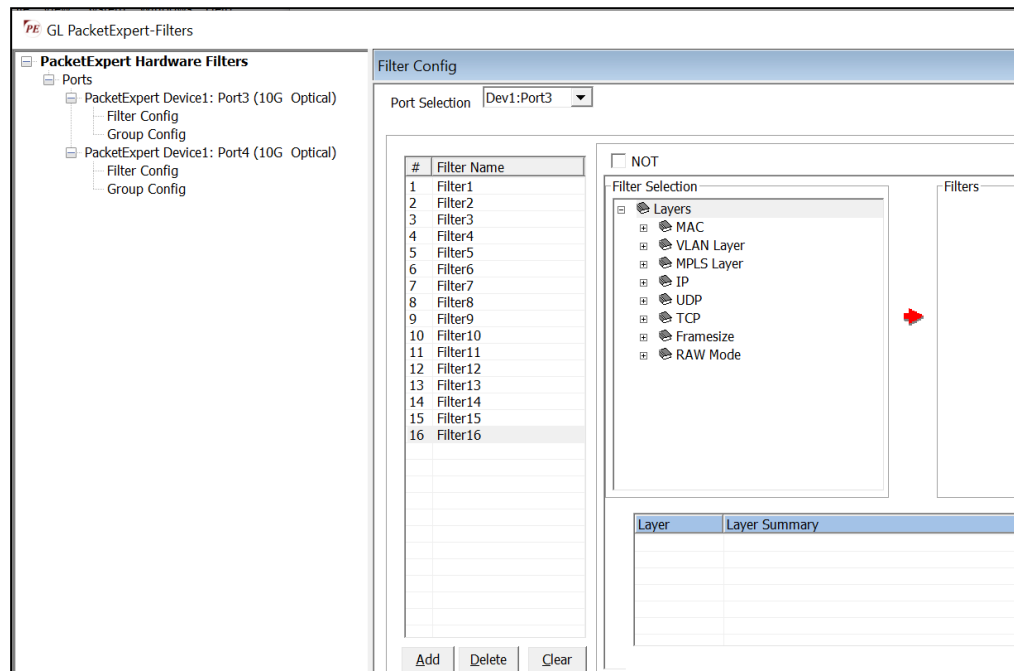
PacketScanPX™- Capture Interfaces



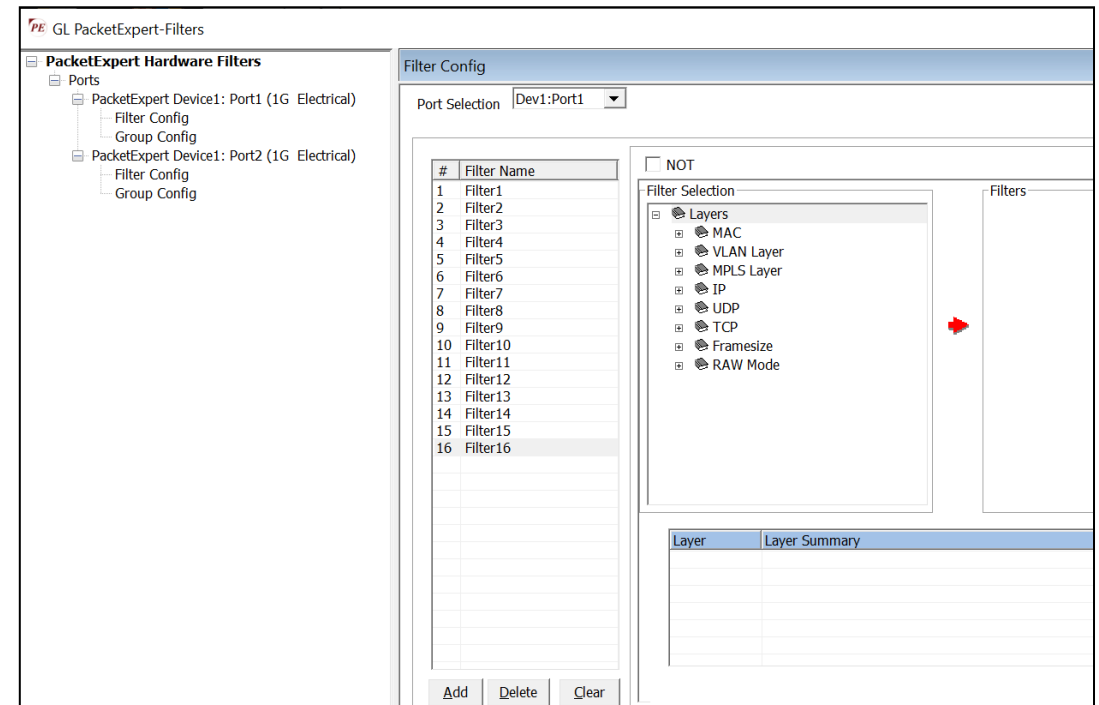
PacketScanPX™- Hardware Filters



For 10G Optical Ports



For 1G Electrical Ports



Real-Time Packet Capture with Layer-Wise Decoding

PacketScan (IpProt) 64-bit

File View Capture Statistics Database Call Detail Records Configure Help

GoTo

Device	Frame#	TIME (Date)	Length (Bytes)	Error	Length/Protocol Type MAC	Destination IP Address IP	Source IP Address IP	Protocol IP	Destination Port UDP	Source Port UDP	SIP CSeq SIP	SIP Call ID SIP
✓	3	174967746565	2026-04-08 11:47:16.118472		Internet IP(IPv4)	192.168.1.12	192.168.1.11	UDP	1002	1001		
✓	3	174967746566	2026-04-08 11:47:16.118478		Internet IP(IPv4)	192.168.1.12	192.168.1.11	UDP	1002	1001		
✓	4	174967746567	2026-04-08 11:47:16.118478		Internet IP(IPv4)	192.168.1.11	192.168.1.12	UDP	1001	1002		
✓	3	174967746568	2026-04-08 11:47:16.118484		Internet IP(IPv4)	192.168.1.12	192.168.1.11	UDP	1002	1001		
✓	4	174967746569	2026-04-08 11:47:16.118487		Internet IP(IPv4)	192.168.1.11	192.168.1.12	UDP	1001	1002		
✓	3	174967746570	2026-04-08 11:47:16.118490		Internet IP(IPv4)	192.168.1.12	192.168.1.11	UDP	1002	1001		
✓	4	174967746571	2026-04-08 11:47:16.118495		Internet IP(IPv4)	192.168.1.11	192.168.1.12	UDP	1001	1002		
✓	3	174967746572	2026-04-08 11:47:16.118496		Internet IP(IPv4)	192.168.1.12	192.168.1.11	UDP	1002	1001		
✓	3	174967746573	2026-04-08 11:47:16.118502		Internet IP(IPv4)	192.168.1.12	192.168.1.11	UDP	1002	1001		
✓	4	174967746574	2026-04-08 11:47:16.118503		Internet IP(IPv4)	192.168.1.11	192.168.1.12	UDP	1001	1002		
✓	3	174967746575	2026-04-08 11:47:16.118508		Internet IP(IPv4)	192.168.1.12	192.168.1.11	UDP	1002	1001		
✓	4	174967746576	2026-04-08 11:47:16.118512		Internet IP(IPv4)	192.168.1.11	192.168.1.12	UDP	1001	1002		
✓	3	174967746577	2026-04-08 11:47:16.118514		Internet IP(IPv4)	192.168.1.12	192.168.1.11	UDP	1002	1001		

Device3 Frame=174967746565 at 2026-04-08 11:47:16.118472 OK Len=1204 *** Right click to SHOW/HIDE layer details or copy ***

Ethernet Frame Data

----- MAC Layer -----

0000 Destination Address = x0021C2002D16

0006 Source Address = x0021C2002D15

000C Length/Protocol Type = x0800 Internet IP(IPv4)

----- IP Layer -----

000E Version = 0100... (4)

000E Internet Header Length (In 32 bit words) = ...0101 (5)

Differentiated Services Field

000F Differentiated Services Codepoint = 000000... Default

000F Explicit Congestion Notification = ...00 Not-ECT (Not ECN-Capable Transport)

0010 Total Length = 1190 (x04A6)

0012 Identification = 63709 (xF8DD)

0014 Reserved Bit = 0... Not Set

0014 Don't fragment = 0... Not Set

0014 More fragments = 0... Not Set

0014 Fragment Offset = 0 (...00000 00000000)

0016 Time To Live = 128 (x80)

Hex Dump of the Frame Data

```
00 21 C2 00 2D 16 00 21 C2 00 2D 15 08 00 45 00  |Ã - |Ã - E
04 A6 F8 DD 00 00 80 11 BA 01 C0 A8 01 0B C0 A8  |øÿ ¢ ¢ Ã  Ã
01 0C 03 E9 03 EA 04 92 B0 73 F8 DD 07 22 F6 5D  |é é 'søÿ "ö]
44 29 76 91 35 3A 7B CE C6 2C B4 8E 11 6D DE 02  |D) v'5: {IÆ, 'I mb
CB F9 A3 D6 D7 96 85 3F 29 BA A6 73 37 20 D4 2A  |EufÖx[|?] ¢ |s7 Ö*
E3 B3 15 04 03 A8 85 B7 C2 26 AF EC 59 D8 5E E2  |ä> 'I-Ã-iY0^a
D1 CA AC 17 40 C0 66 A5 72 79 58 E2 3C 98 C0 18  |NE- @Af#ryXä<|Ã
4F 42 7E 4B 95 5C E7 D1 80 88 4D 44 F6 6B B1 39  |OB~K|~ÇNcMDök±9
75 93 8E 1A 4D E0 02 6F BA 3F DD DB 28 7D 99 FB  |u|| Mä ¢?YÜ()Iü
28 DD 53 BB 23 90 63 3B 81 D9 0A 30 E1 DD 48 90  |(YS>#c;Ü 0áYH
21 91 E7 DD A5 C2 4D 9E E8 5F BD 2C AA BB 57 6C  |'ÇY#AM|é-%, ¢»W1
01 3C 27 E7 EE 45 CE 4E C7 28 87 8E 03 26 88 03  |<ÇiEINÇ(|I I
```

Capture Rate: 2724.57 Mbps C:\Program Files\GL Communications Inc\PacketScanPX\tem Captured 174 968 055 712 frames Missed Frames: 0

Thank you