



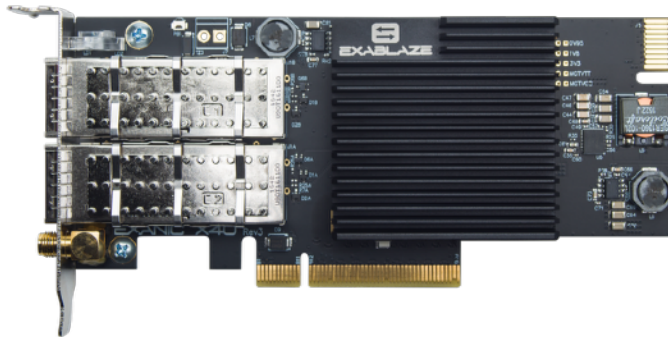
# News and updates from Exablaze

# Exablaze FPGA based NICs



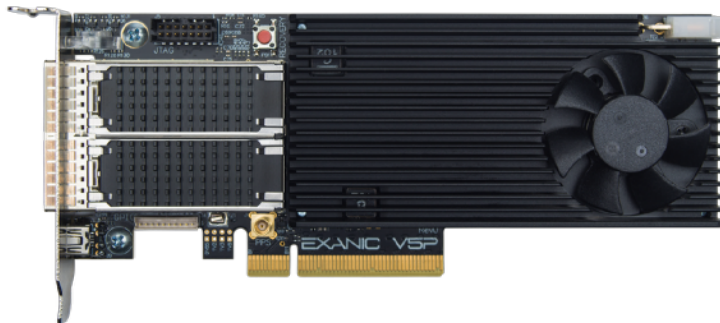
## ExaNIC X10

- 2 port 10GbE
- Xilinx KU035



## ExaNIC X40

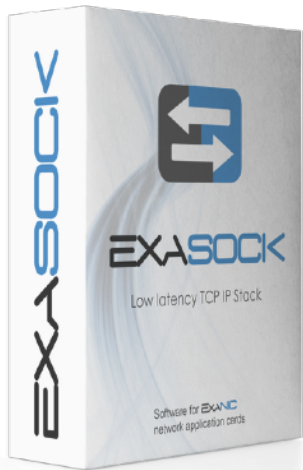
- 8 port 10GbE
- 2 port 40GbE
- Xilinx KU035



## ExaNIC V5P

- 8 port 10G/25bE
- 2 port 40/100GbE
- Xilinx VU5P

# ExaSOCK TCP/IP Stack



- Ultra-low latency, kernel bypass design
- Fully open source ([github.com](https://github.com))
- Transparent application acceleration
- Extensions for custom applications
- TCP/IP frame preload / staging

# ExaNIC Firmware Development Kit (FDK)



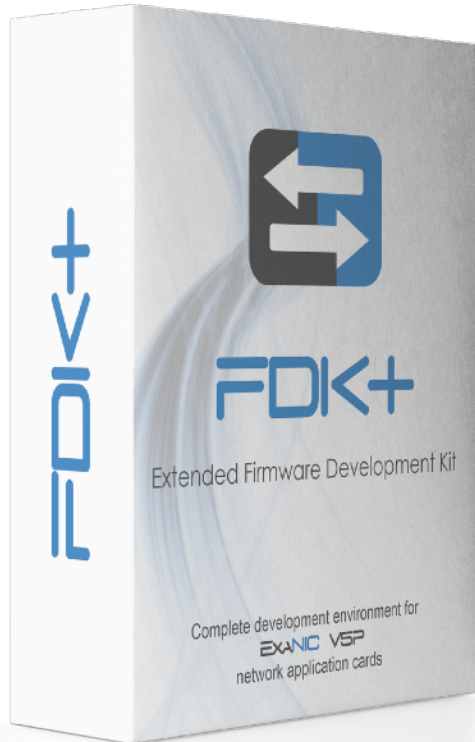
- Complete development env.
- Low latency PCS/MAC
- Low latency PCIe DMA engine
- Time-stamping, time-sync, capture
- Toolchain, drivers, and software
- Exablaze support

# Introducing FDK+



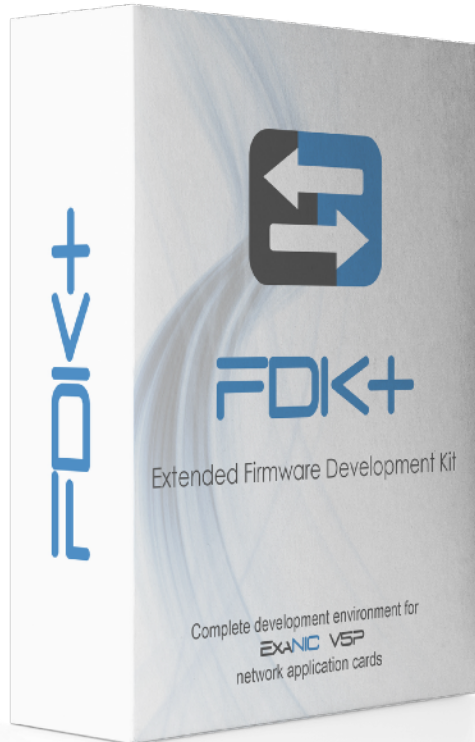
- Everything from previous FDK

# Introducing FDK+



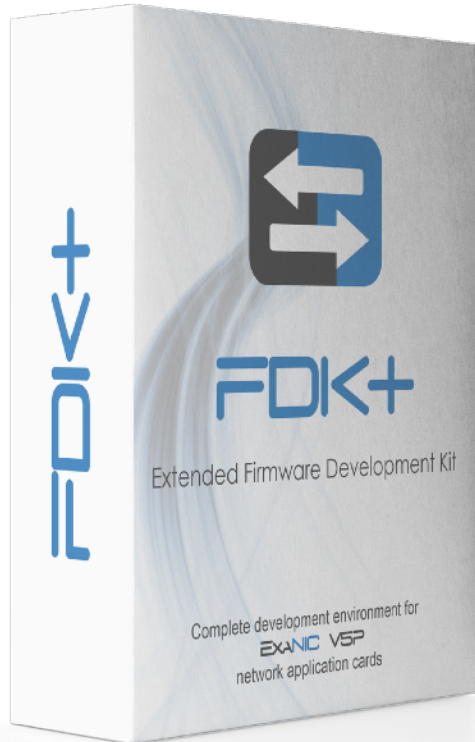
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- Faster PCS/MAC

# Introducing FDK+



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- Faster PCS/MAC
- Accelerated TCP Engine (ATE)

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- Everything from previous FDK
- Faster PCS/MAC
- **Accelerated TCP Engine (ATE)**

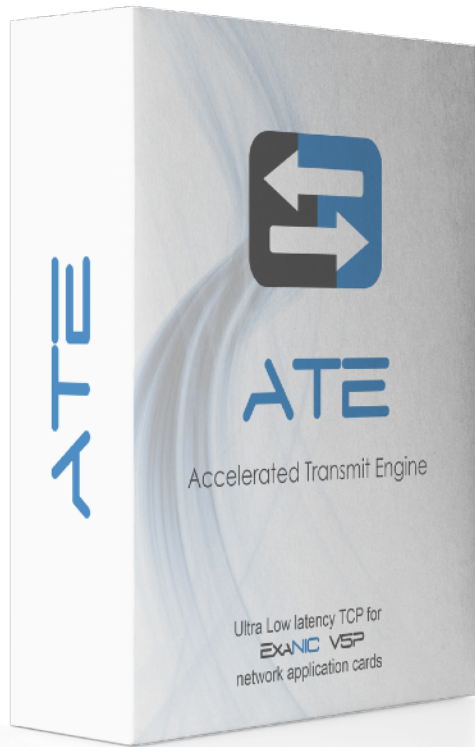


# What is an ATE?



- ULL Hybrid TCP/IP stack

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- ULL Hybrid TCP/IP stack
- Fully implements TCP
- TCP header management (HW)

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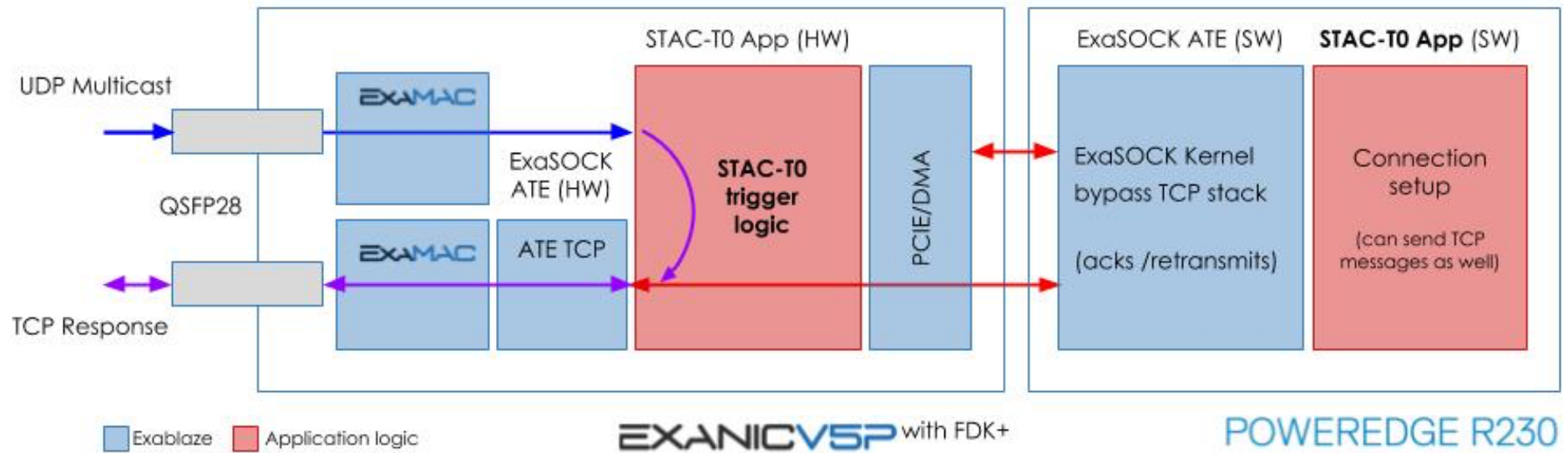
- ULL Hybrid TCP/IP stack
- Fully implements TCP
- TCP header management (HW)
- TCP session management (SW)

# What is an ATE?



- ULL Hybrid TCP/IP stack
- Fully implements TCP
- TCP header management (HW)
- TCP session management (SW)
- 512 concurrent TCP connections

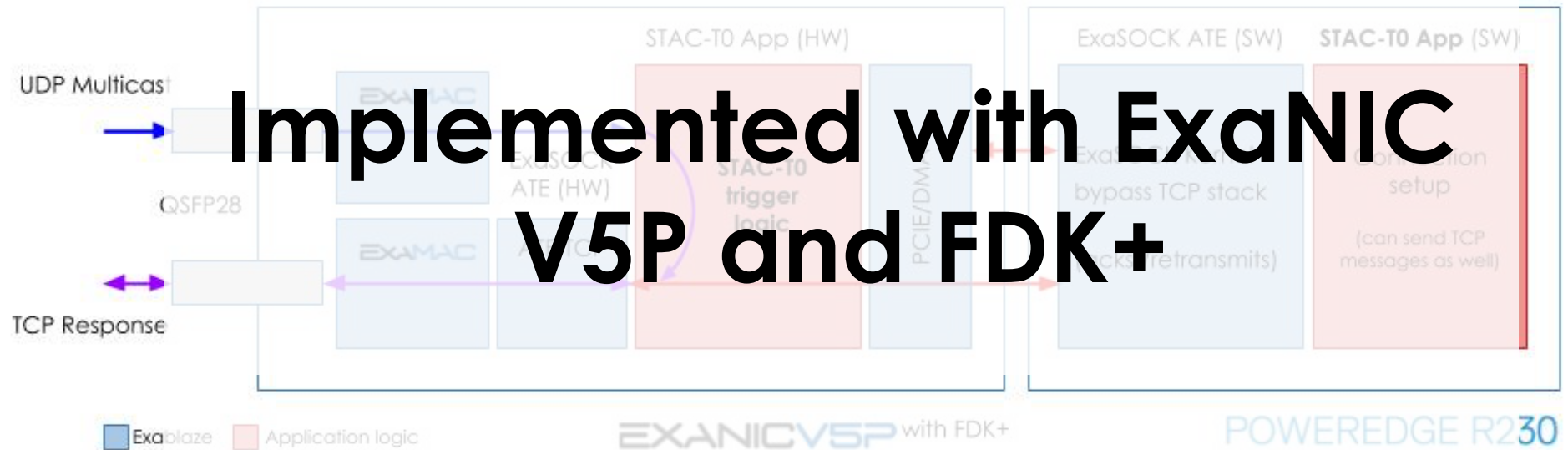
# STAC-T0 (tick-to-trade)



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**Fastest tick-to-trade system  
validated by STAC**



# STAC-T0 (tick-to-trade)

# 44ns

**Max. actionable. latency**

STAC-T0.β1.\*.\*.ACTIONABLE.MAX

# STAC-T0 (tick-to-trade)

# 31 ns

**Min. actionable latency**

STAC-T0.β1.\*.\*.ACTIONABLE.MIN)

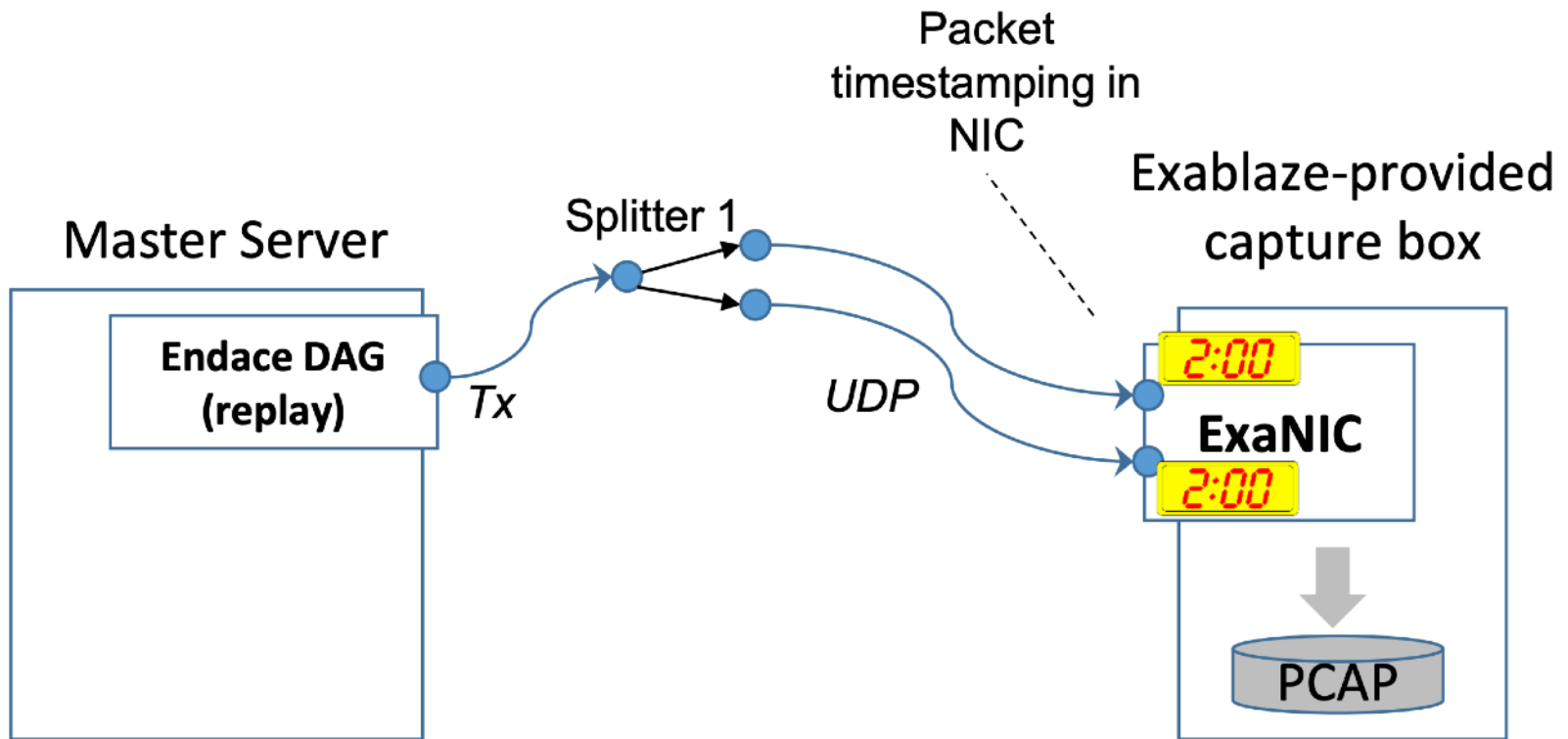
STAC-T0 (tick-to-trade)

**6.2Gb/s**

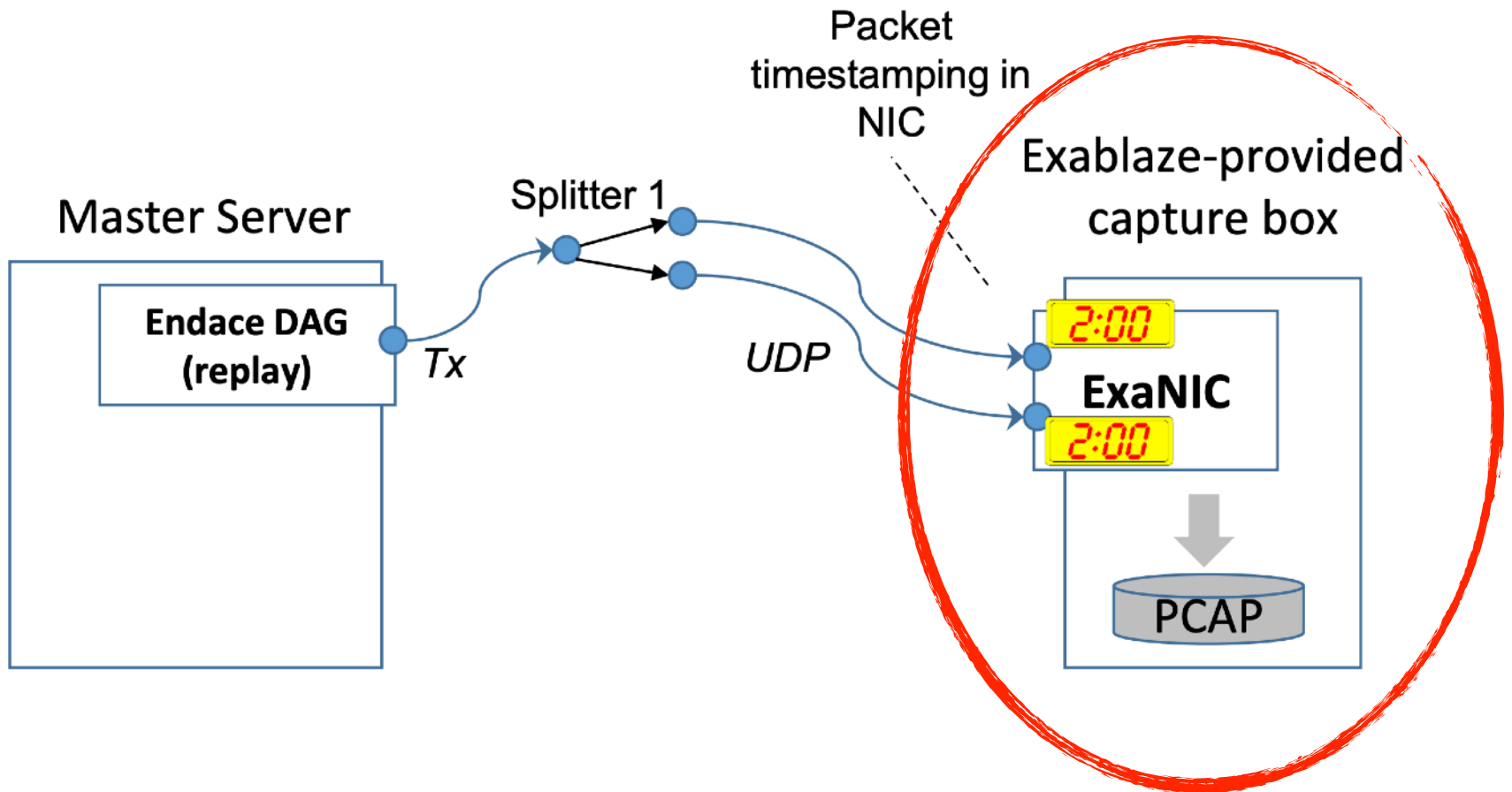
**max. tested rate\***

# What about capture?

# STAC-TS.PSE1



# STAC-TS.PSE1



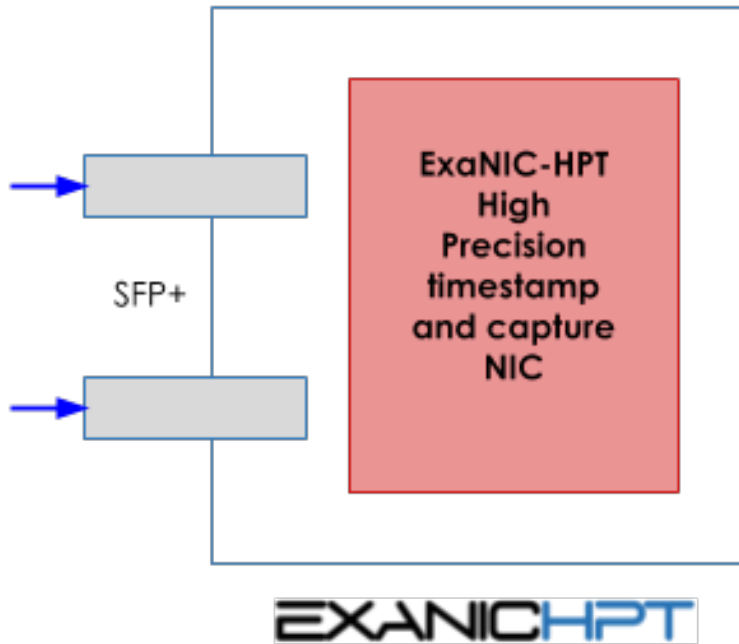
**Exablaze Capture Solution**

# Exablaze Capture Solution



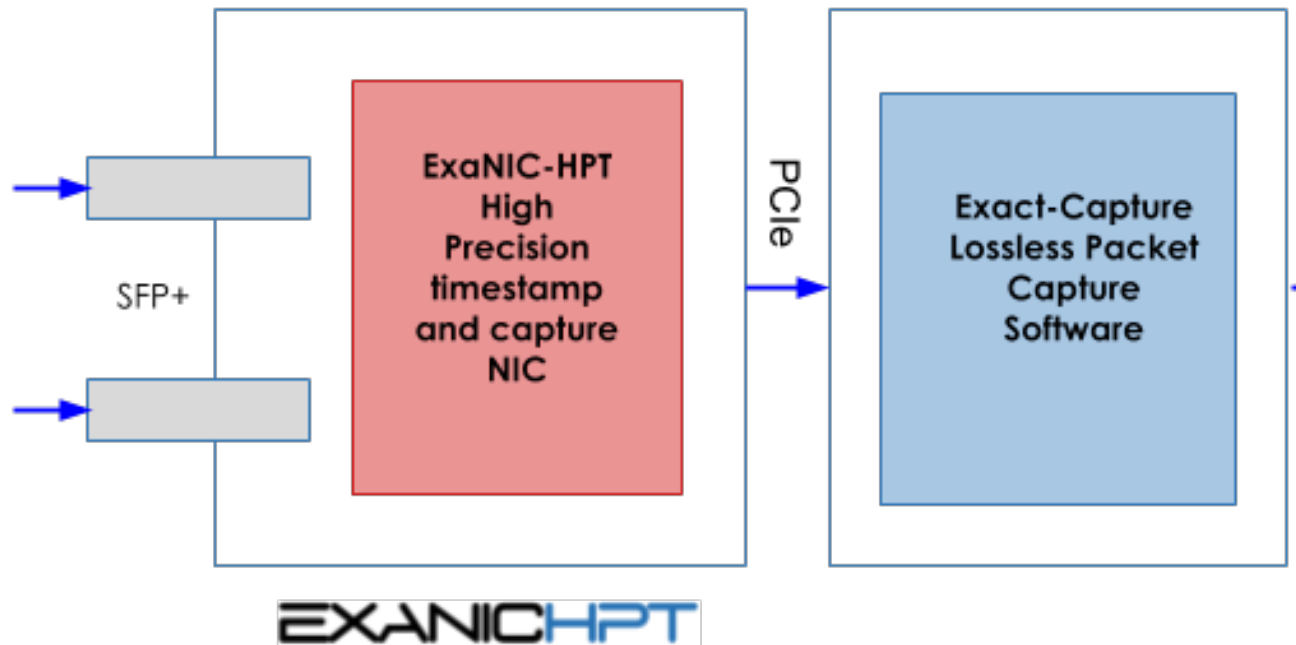
*Ssssssh!*

# Exablaze Capture Solution

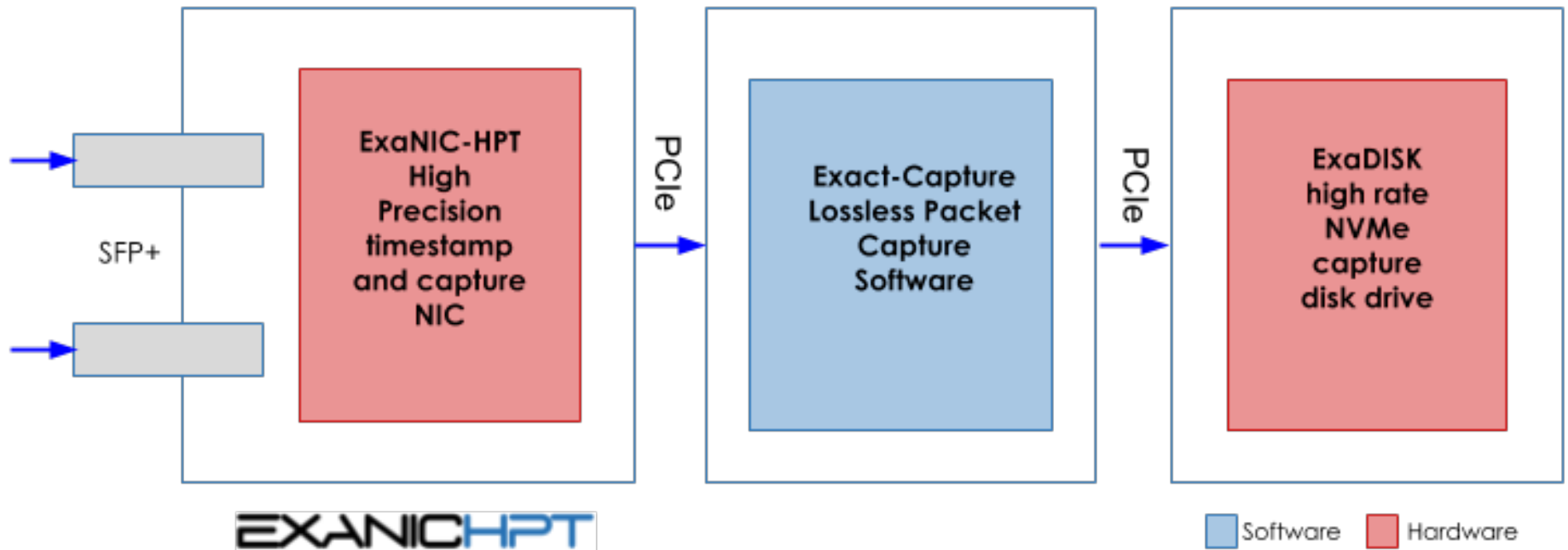




# Exablaze Capture Solution



# Exablaze Capture Solution



Tick the box to find out more...

