

The interface between the **OpenNet** system and the operating system's network stack is provided by a specially designed device driver.

A system can hold up to 31 network cards and multiple graphics cards. A single graphics card can process data from one or more network cards.

Performance

A modest system with an **Intel® PRO / 1000 EB Dual Port Server Adapter** (82576) and only one **Radeon™ Pro WX 5100** graphics card, can handle, at this time, more than 1.6 million packets per second. It also allows to process and retransmit using the same card, or another one, more than 750,000 packets per second.

Applications

- Fully analyze network packets
 - Detect threats or intrusions
 - Search for data in the contents of packets
- Select packets to submit to an analysis or treatment
- Modify packets
 - Encryption / Decryption
 - Address Translation
 - ...
- Test OpenCL™ processing code to be used on a FPGA
- Offload tasks normally performed by the main processor
 - Encryption / Decryption
 - Compression / Decompression
 - Receive or transmit TCP
 - Receive or transmit images or video
 - ...
- Connect the network directly with artificial intelligence algorithms running on graphics processors
- ...

Technical information

Supported graphic cards	Radeon™ Pro WX 5100, WX 7100, WX 8200, WX 9100 Other card supporting DirectGMA
Supported network adapters	Intel® PRO/1000 EB Dual Port Server Adapter (82576) Other network card supported on demand
Supported operating systems	Windows® 10 64 bit

The **NVIDIA®** graphic cards supporting the **GPUDirect™** technology will soon be supported on **Linux** using the **CUDA®** language.

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