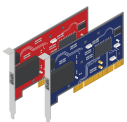


Owl Communication Card Kits - Version 4

Owl Communication Cards comprise the core technology of Owl data diode products. Each Card Kit is comprised of two purpose-built network interface cards (one send, one receive) and a fiber optic cable. Each card is color-coded: Blue for send, and red for receive. The send card resides in a designated send server (blue) on the source network, and only has electronic components, including an LED, for transmitting information. The receive card resides in a designated receive server (red) on the destination network, and only has electronic components, including a photodetector, for receiving information. The hardware design of these cards physically enforces deterministic, one-way only data transfers.

Each individual card is installed on a separate host server in a PCI Express slot and they communicate in a single direction over a fiber optic cable via the asynchronous transfer mode (ATM) protocol. ATM serves two purposes – the first is to “break” the protocol of the original transfer for additional security, the second is to facilitate a one-way transfer using a protocol specifically designed for it.

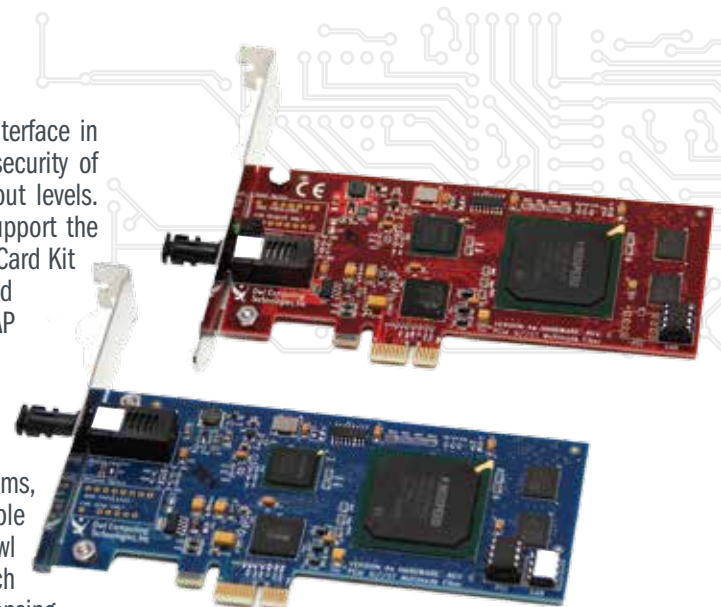
All Owl Communication Card Kits come preloaded with one of the following Owl Transfer Software Applications: DFTS, TPTS, UPTS, NPTS, OSMS, or SNTS. For more information on these applications, please visit www.owlcti.com/data-transfer-apps.html.



Owl V4 Communication Cards

The Owl V4 Communication Card Kit is used as the controlled interface in transfer solutions, when user applications require the physical security of fiber-optic transport, and low-to-moderate user content throughput levels. Owl V4 cards, matched with Owl application-specific software, support the secure transfer of all types and formats of user traffic. The Owl V4 Card Kit is listed on the UCDSMO Baseline Inventory, and has been accredited and validated for use. Owl V4 Communication Cards are also NIAP Common Criteria EAL4 certified for quality assurance.

Owl V4 Communication Cards are available in fixed rate bandwidths of 26 Mbps, 52 Mbps, 104 Mbps or 155 Mbps, and are installed in PCIe server expansion slots, compatible with 32 bit operating systems, including Windows, Solaris or Linux. Owl V4 Card Kits are available for purchase and fully supported, however for new deployments, Owl recommends the new V7 Standard Communication Card Kits which feature state of the art technology and upgradeable bandwidth licensing.



🔍 Technical Specifications

Software:

- Owl Secure Transfer System Drivers
- Send/Receive Installation Software
- Owl Applications for File/Directory, TCP/IP, UDP, & Syslog/SNMP TRAP Transfer

Connection:

- Fiber Optic Multi-Mode
- ST-ST Cable
- Seamless 10/100/1000 Integration

Compatibility:

- PCI Express (PCI SIG Compliant)
- Dell PowerEdge, Sunfire & Sun Blade, HP Proliant (For other platforms, contact Sales)

Operating Systems:

- Windows / Solaris / RHEL®

Owl Communication Card Kit Buying Guide

Typically, Owl Communication Card technology is used by sophisticated end users already familiar with the accreditation process (Intelligence agencies, large defense contractors) to build cybersecurity solutions, most commonly cross domain solutions, for specific projects, programs or missions. For customers that aren't looking to build their own solution, we recommend one of our all-in-one, off-the-shelf data diode solutions – such as the OPDS-1000 or the accredited OCDS-SFF – that have provide a fast track to ATO, and readily install into an existing cybersecurity infrastructure.

Owl V4 cards support a number of different bandwidths and are still readily available, but unless you are looking to replace or expand a current V4 deployment we strongly recommend you select a corresponding Owl V7 Card Kit. V7 Card Kits are designed to replace and surpass previous versions of Owl Card Kits. New, and available only in V7 Card Kits, variable bandwidth licensing provides an easy upgrade path for increased bandwidth when you need it. As with all Owl data diode products, Owl Communication Card Kits are compatible with all Owl software modules and data transfer applications, and are EAL certified for quality assurance.

Product	Max Throughput	Recommendation	Replaces
V7 High Capacity	5,000 - 10,000 Mbps	Use for extremely high bandwidth requirements – e.g. full network monitoring or multiple video streams.	None (New)
V7 Mid-Range	1,250 - 2,500 Mbps	Use for mid-to-high capacity bandwidth requirements – e.g. full motion video or regular large file transfers.	Owl V6 Card Product Line
V7 Standard	26 - 1,000 Mbps	Use for standard operational requirements – Infrequent or small file transfers, data replication and backup.	Owl V4 Card Product Line
V6 2500	2,500 Mbps	Use for NATO Information Assurance Product Catalog requirements for one-way transfer.	None
V6 1250	1,250 Mbps	Use for existing V6 Card deployments with mid-range throughput requirements.	None
V4 155	155 Mbps	Use to replace or expand existing V4 Card deployments	None
V4 104	104 Mbps	Use to replace or expand existing V4 Card deployments	None
V4 52	52 Mbps	Use to replace or expand existing V4 Card deployments	None
V4 26	26 Mbps	Use to replace or expand existing V4 Card deployments	None

About Owl

With over 2000 deployments globally, Owl Computing Technologies is the leader in data diode cybersecurity solutions, enabling hardware-enforced network segmentation and deterministic, one-way transfer of all data types and file sizes. USA owned and operated, Owl offers validated and accredited products, servicing the intelligence, military, government, and critical infrastructure communities.

