



Owl Computing
Technologies®

OWL 2500_{GOV}

2.488Gbps Cross-Domain Communications Cards

The Owl 2500 card set is the newest addition to Owl Computing's accredited and certified DualDiode® Technology product suite, securely transferring data between cards at 2.488 Gigabits per second, across a fiber-optic link. Owl 2500 high capacity bandwidth, coupled with Owl user application-specific software, enables the deployment of one-way cross-domain solutions that meet and exceed the largest, and most stringent, application demands. Owl 2500 and Owl 155 communication cards are NIAP Common Criteria EAL-4 certified.

Evolving cross-domain needs

Traditional cross-domain approaches (walk-net, "clipped" cable, Ethernet, etc.) are being over-run by the volume and variety of today's data types. As examples, the need to transfer Terabyte-plus-scale files with timely efficiency; the urgency inherent in viewing high-bandwidth/high-resolution video & image streams in real time; demand an automated, security-assured, method of transferring content from one discrete domain to another. Owl Computing solutions directly address these needs; Owl 2500 high capacity makes the solutions even more efficient and faster. The compact half-height, half-length cards may be installed in a wide range of server platforms, exploiting PCI Express PCIe serial connectivity to facilitate the required data transfer rates.

Clear Channel & Multi-channel

Owl 2500 cards may be configured to operate in clear-channel and multiple channel modes. To support very large file transfers, such as entire databases and high-resolution images, Owl 2500 Clear delivers 270+ MegaBytes/second of throughput content. When users require high capacity for a variety of applications across the same physical link, Owl 2500 Channelized presents 4 independent channels, with each channel supporting 65+ MegaBytes/second for user content.

- Discrete Send & Receive optics footprints
- Compact height - half length
- No discrete RAM to retain data or routing information



SECURE. RELIABLE. FAST.



NIAP Common Criteria EAL-4 Certified*

* Owl 2500 cards and Owl 155 v.3 & v.4 cards, EAL-4; Owl 155 v.1 & v.2, EAL-2

APPLICATIONS:

- Cross-domain solutions
- Streaming video & high-resolution images
- Controlled interface
- Very large file transfer
- Upguard / downguard operations
- Sneaker Net replacement
- ISP data protection

Owl Computing hardware provides an EAL-certified solution for secure one-way data transfers.

*In the Enterprise Core
At the Tactical Edge*

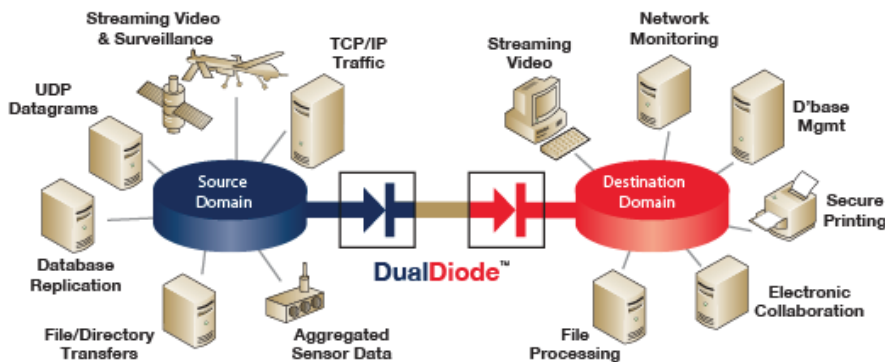


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DualDiode® Technology

A pair of Owl Communication Cards (Send-only and Receive-only), with Owl internally developed drivers, forms a Dual in-line Diode; each card is custom-manufactured to permit one-way-only data transfer. Security for the one-way transfer is enforced at both the send and receive nodes in this exclusive Owl design - neither diode requires a trusted state with the other. Application-specific software (for files, TCP packets, etc.) completes the individual Owl product offering.

Owl One-Way DualDiode Technology design securely protects the send- and receive-network domains. No information of any kind, including handshake protocols (TCP/IP, SCSI, USB, serial/parallel ports, etc.), pass from the destination computer/network back to the source computer/network. Owl's one-way transfer is a dedicated point-to-point link and requires no additional machine configuration (such as IP). This "trust-nothing" design ensures that data residing on each isolated network is fully protected.

Owl products have "Authorization-to-Operate" ATO status within many government agencies. There are over 1000 deployments Secured by Owl throughout the Department of Defense and the US Intelligence community, and the industrial control system industry.

About Owl Computing Technologies: a U.S.-owned & operated Small Business Owl Computing Technologies, Inc., based in Ridgefield, Connecticut, is a privately funded US company.

Owl has an exclusive licensing agreement with Sandia National Laboratories, with worldwide rights to develop and market products originally based on Sandia's patented data diode technology. Sandia National Laboratories is a U.S. National Laboratory operated by Sandia Corporation, for the U.S. Department of Energy.

Owl Computing develops and markets Secure Information Transfer Systems for files and directories, UDP- and TCP-based traffic, for multiple streaming video sessions, and other formats — please call for more information.

Visit us at www.owlcti.com

SPECIFICATIONS:

DualDiode® Hardware:

Owl 2500 Communication Cards -- Custom DualDiode Technology OCCs, and drivers, enable one-way-only data transfer at 2.488 Gbps

Software:

Owl Secure Transfer System Send/Receive Driver and Send/Receive Installation software; Application-specific software to match user data transfer needs (files/directories, TCP packets, UDP datagrams, UNIX syslog messages, SNMP TRAPS, etc.)

Connection:

Fiber Optic Multi-Mode
LC-LC cable
Seamless 10/100/1000 Integration

Throughput:

2.488Gbps link speed;
270 MBytes/sec payload throughput

Compatibility:

Dell PowerEdge, Sunfire and Sun Blade,
HP Proliant (for other platforms, contact Sales)

Operating Systems:

SUN SOLARIS® 8, 9, 10
RED HAT® LINUX®
Microsoft WINDOWS® XP
Microsoft WINDOWS® 2003
SE LINUX®
TRUSTED SOLARIS®