



Owl Computing
Technologies®

OWL 2500^{E&U}

2.488Gbps Perimeter Defense Communications Cards

The Owl 2500 card set is the newest addition to the Owl Computing Common Criteria-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 application-specific software connectors enables the deployment of one-way electronic boundary 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 electronic perimeter 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 large-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 up to 8 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



APPLICATIONS:

- Electronic Perimeter Defense
- Streaming video & high-resolution images
- Realtime core monitoring content
- Very large file transfer
- Process control outbound to business networks
- Business networks inbound to process control operations
- Sneaker Net replacement

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

*Security & Reliability
At the IT Electronic Perimeter*



SECURE. RELIABLE. FAST.



NIAP Common Criteria EAL-4 Certified*

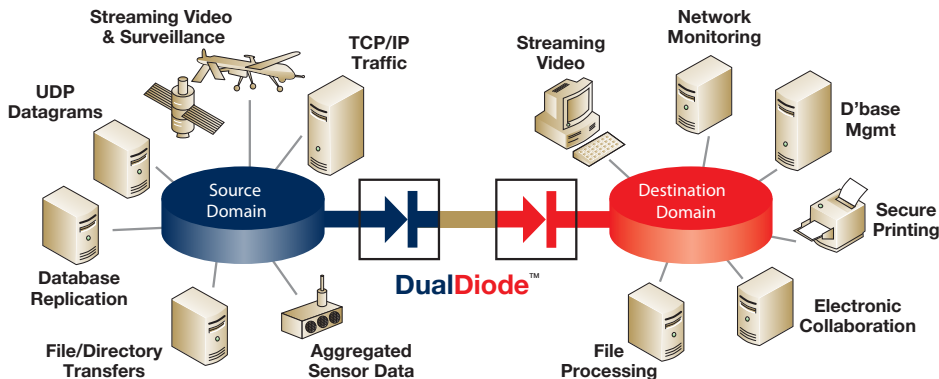
* Owl 2500 cards and Owl 155 v.3 & v.4 cards, EAL-4; Owl 155 v.1 & v.2, EAL-2

Owl Computing Technologies, Inc.
38A Grove Street, Suite 101
Ridgefield, CT 06877

www.owlcti.com

Toll Free: 866-695-3387
Email: sales@owlcti.com
Phone: 203-894-9342
Fax: 203-894-1297

OWL 2500_{E&U}



DualDiode® Technology

(for information on integrated DualDiode Technology in a 1U enclosure, see OPDS-104 datasheet)
In standalone server applications, 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 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 historian databases, core monitoring, remote screen view, 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.

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/energy

SPECIFICATIONS:

Owl Perimeter Defense Solution -- OPDS-104

Two Owl-designed communication cards - one Send-only, one Receive-only in PC104 form factor, each integrated with independent servers within OPDS chassis - fiber optic link speed 104Mbps, with user throughput at 10MBytes per second.

Support for Control Systems Interfaces & Applications

General Electric iFix
General Electric iHistorian
General Electric OSM
InStep eDNA
Matrikon Alert Manager
OSIsoft PI System
Scientech R*Time
Siemens SIMATIC WinCC
Siemens SINAUT
TCP; UDP

SCADA Connectors

DNP3
ICCP
Modbus
OPC

Monitoring

CA SIM
CA Unicenter
HP OpenView
Log Transfer
Remote Screen View
SNMP
Syslog

File transfer options

CIFS (Remote folders)
FTP
FTPS (SSL)
RCP
SFTP (SSH)
TFTP
Owl RFTS