



## Owl 155 DualDiode Communications Cards

The Owl 155 communication card set is the controlled interface in Owl Computing transfer solutions, when user applications require the physical security of fiber-optic transport, and moderate-to-high user content throughput levels.

Owl 155 cards operate at a range of one-way link speeds, including 52, 104, and 155 Megabits per second. Matched with Owl application-specific software, they support the secure transfer of all types and formats of user traffic. Owl 155 communication cards are NIAP Common Criteria EAL-4 certified (3 & 4); EAL-2 certified (1 & 2), and meet NERC-CIP non-routable data requirements.

### Evolving secure electronic perimeter needs

The security and reliability of industrial control systems are under stress in today's operational environment.

Owl responds to the industry's information transfer challenges with easily deployed DualDiode® solutions, designed to operate across the broadest range of user environments & platforms, and transparent to almost all user applications. Owl 155 hardware and proprietary drivers enforce a secure "protocol break" between electronic perimeters of varying security levels and needs-to-know. As with all Owl Computing products, a wide range of operating systems is supported. Standards-based off-the-shelf optical connectors with multi-mode fiber, comprise the optical connection.

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



**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:

- Secure IT electronic perimeter solutions
- Streaming video & high-resolution images
- Controlled interface
- Large file transfer
- Upguard / downguard operations
- Sneaker Net replacement
- UNIX Syslog message & SNMP TRAP transfer

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

*Security & Reliability  
At the IT Electronic Perimeter*

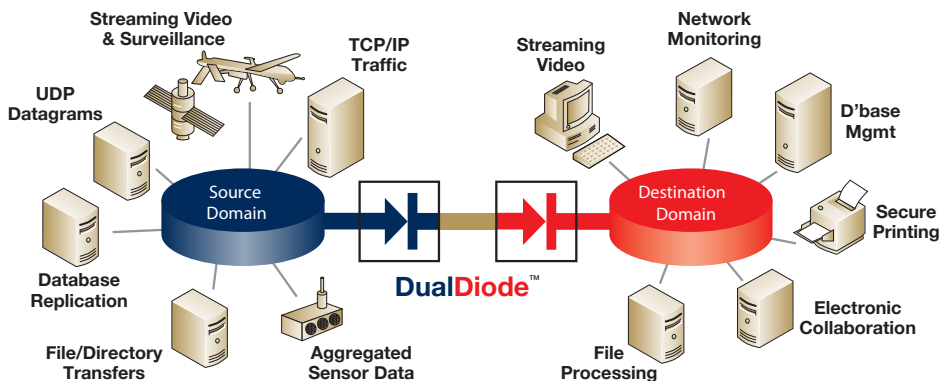


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# OWL 155<sub>E&U</sub>



## 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.

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.html](http://www.owlcti.com/energy.html)

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## SPECIFICATIONS:

### Connection:

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

### Throughput:

155.52Mbps link speed -- 15+ MBytes per second user throughput; 104Mbps link speed -- approx. 10MBytes throughput; 52Mbps link speed -- approx. 5MBytes 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®

### 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