



## Owl 4.0 Small Form Factor CDS

In a 1U (1.75") high rackmountable chassis, the Owl 4.0 SFF supports cross domain data flows for file transfers in a lower-to-higher security direction. Within the single chassis, Owl 4.0 SFF integrates complete Send-only and Receive-only server engines connected via Owl proprietary DualDiode® Technology. Send & Receive servers are connected by an internal fiber optic link operating at 155Mbps.

Extensive data filtering and content examination utilities may be enforced at either the Send-only or Receive servers, or both. Owl 4.0 SFF provides a certifiable one-way solution with a base set of capabilities -- configurable as enabled or disabled -- as dictated by changing mission and security requirements, leading to re-use among programs that require similar capabilities.



## Certifiable, modular, and configurable

In addition to satisfying site-specific requirements, Owl 4.0 SFF is designed to provide a non site-specific one-way CDS architecture with a base set of security features. Modular data filters managed by the Owl File Integrity Agent (OFIA) ensure integrity of data passing onto the destination domain. Owl 4.0 employs Owl Remote File Transfer Service RFTS for efficient and authenticated transport of files as TCP/IP streams -- to the cross domain solution from source, and from the CDS to the user destination.

Since data type and data filter requirements are largely determined by program and site, the OFIA application programming interface is designed to accommodate third party data filter software applications. By default, it is equipped with antivirus scanning software (i.e., ClamAV) and a file type checking method that are designed to block transfer of malware and executable code, respectively.

The compact 4.0 SFF footprint accommodates high levels of processing & storage.

- PC/104 formatted Intel CPUs run Oracle® Solaris X86 OS supporting:
  - 1) Unconditional data diode transfer at full 155Mbps line rate (user throughput up to 15 MegaBytes per second)
  - 2) All functional & supervisory Owl software tasks
  - 3) All content management & disposition tasks.
- PC/104 formatted Owl Communication Cards, individually mated to Send and Receive CPUs, deliver proven one-way reliability and CDS data confidentiality.
- For file storage during filtering & examination, individual solid state drives (at 40GigaBytes & higher capacities) enable very high "read" speeds and sustained "write" rates of 40MegaBytes per second. True IT-class drives offer dependable long life.

## FEATURES:

- UCDMO Baseline approved for re-use
- Full-featured small footprint
- Scanned & filtered file transfer
- Non site-specific base set of CDS capabilities
- Oracle® Solaris X86 OS
- Capacity:
  - 15 MegaBytes per sec;
  - 155Mbps link speed
- Log file-management system

*In the Enterprise Core  
At the Tactical Edge*



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

[www.owlcti.com](http://www.owlcti.com)

Toll Free: 866-695-3387  
Email: [sales@owlcti.com](mailto:sales@owlcti.com)  
Phone: 203-894-9342  
Fax: 203-894-1297

# Owl 4.0<sub>SFF</sub>



OWL 4.0<sub>SFF</sub> REAR PANEL VIEW

## Owl Computing Business Differentiators

- EAL-4 Certified DualDiode Technology
- Cross Domain Solution & Accreditation Expertise
- Data Filter Integration & Management

### Operating Conditions:

32°F to 110°F  
0°C to 43.33°C  
20% to 85% humidity non-condensing

### Power Supply:

Input: 100-240V AC auto-ranging,  
min. 30W per side  
(fused at 7A at IEC connector)  
Output: 5V at 26A (fused at 6A)  
EU & UK power cables on request

### Power Consumption:

**BLUE Inlet** Send-only side -- 20W max  
Nominal = 17.6 W  
Standby = 5.5 W  
**RED Outlet** Receive-only side -- 20W max  
Nominal = 17.5 W  
Standby = 5.5 W

### Storage:

-40°F to 158°F  
-40°C to 70°C  
5% to 95% humidity non-condensing

### Safety Standards:

UL60950-1, TUV EN60950-1 approved

**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.

## SPECIFICATIONS:

### DualDiode® Technology hardware

Two custom-designed communication cards – one Send-Only, one Receive-Only in PC104 form factor, each integrated with independent servers within Owl 4.0<sub>SFF</sub> chassis -- fiber optic link speed 155Mbps.

### DualDiode Communication Card Software

Secure Transfer System Send/Receive drivers & Send/Receive install software

### Power Supply Specifications

DC Voltage: 5V  
Rated Current: 26A per supply  
Working Temp: -30 ~ +70°C  
Working Humidity:  
20 ~ 90% RH non-condensing  
Safety Standards:  
UL60950-1, TUV EN60950-1 approved

### Physical:

Width: 16.5 in.(41.91 cm)  
-- w/ears, 19 in. (48.26 cm.)  
Height: 1.75 in. (4.45 cm.) -- 1U  
Depth: 13 in. (33.02 cm.)

### Transport Testing:

Random Vibration and Loose Cargo  
Transportation Tests -- MIL-STD-810F

### Chassis:

Black powder-coated aluminum & aluminum sheet

### Mounting System:

19" (48.3 cm) rackmounting; tabletop or shelf-mount

### Cooling System:

High-efficiency fan system with low system acoustic noise level

### Chassis Size:

16.5" W x 1.75" H x 13" D  
41.91 cm x 4.5 cm x 33 cm

### Unit Weight:

7.92 lbs./3.6 kg.

### Shipping Size:

18" W x 8.5" H x 15" D  
45.7 cm x 21.6 cm x 38.1 cm

### Shipping Weight:

12.2 lbs./5.5 kg.

Visit us at [www.owlcti.com](http://www.owlcti.com)



**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