

OCDS-1000



The Owl Solution

The OCDS-1000 is designed to deliver robust one-way transfer functionality in an all-in-one package. This 1U, single box solution is capable of transferring data between networks of varying security policies.

The OCDS-1000, with EAL and NSA evaluated diode-based hardware enforcement, has gone through shock and vibration testing and provides a number of physical security features to resist tampering. Designed to provide deterministic one-way only data transfers, the OCDS-1000 supports multiple data types, formats and data streams concurrently.

High Bandwidth. Single Device. Easily Deployed.

The task of moving critical data between networks of varying security levels and security policies continues to evolve. The security boundary requiring protection may be in the enterprise data center, in a field-forward combat position, perhaps even in the mobile vehicle. Multiple types of data must cross the domain edge. The OCDS-1000 is designed to satisfy the need for robust one-way functionality in a small form factor, low SWaP (size, weight, and power) integrated package.

Next Generation Speed

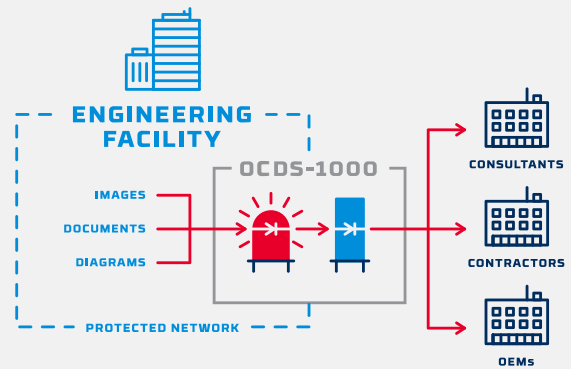
The OCDS-1000 is Owl's all-in-one, 1U rack-mount cyber security product. It offers bandwidth speed (up to 1,000 Mbps). Available in 1U device, the OCDS-1000 has separate data transfer and admin ports for improved security, the fastest CPUs to date, and uses solid state drives. All of this is integrated with our latest DualDiode communication cards in a 1U rack-mount chassis.

Physical Self Protection

In situations where physical threats can jeopardize network cybersecurity, the OCDS-1000 protects itself from physical attack with several different security measures. The OCDS-1000 comes with a locking enclosure that includes a special key option. The bottom is attached with rivets instead of screws so that it can't be opened. The top of the enclosure is attached with tamper resistant screws and comes with a provision for an additional lock or tamper evident wire ties.

OCDS-1000 IN ACTION

A large, U.S. based aerospace contractor needed to securely transfer documents, diagrams, and images associated with different on-going projects and programs to third party partners. Their network security solution included an OCDS-1000 to transfer files from the protected engineering facility to the third parties while preventing access into their facility. In this deployment, the OCDS-1000 transfers different file types, of different sizes, to multiple third party locations simultaneously. The OCDS-1000 was selected because of the large bandwidth requirements and Owl's reputation and lengthy experience in working with the U.S. DoD.



Locked Down Operating System

The OCDS-1000 is focused on a single mission: to provide certifiable, absolute one-way transfer, total network isolation and discrete domain separation. It trusts nothing. It is deployed with a STIG-compliant Certifiable Linux Integration Platform (CLIP) operating system and allows no back channel compromises.

Technical Specifications

OPERATING CONDITIONS:

- 32°F to +110°F (0°C to +43.33°C)
- 5% to 90% humidity non-condensing

POWER SUPPLY:

- Input: 75-230 VAC,
- Estimated Normal operating Usage 10-16 W/side
- Max. 20W per side

STORAGE:

- -40°F to 158°F (-40°C to 70°C)
- 5% to 90% humidity non-condensing

VIBRATION:

- Vibration: (IEC 60255-21-1)
- Vibration 1g (10-500Hz) (Operational)
- Vibration 2g (10-500Hz) (Operational and Non-Operational)

CHASSIS

- Black Anodized aluminum with Locking Top

MOUNTING SYSTEM:

- (1U) Rack Mount, tabletop

NETWORK CONNECTIVITY:

- Separate Ethernet connections for network traffic and remote administration
- Physical connectors: 8P8C (RJ45)
- Supports speeds of: 1000 Mbps (1 Gbps)

SHOCK:

- Shock: (IEC 60255-21-2)
- Shock 10g 11ms (Operational)
- Shock 30g 11ms (Operational and Non-Operational)

COOLING SYSTEM:

- Conductive cooling through enclosure side walls with High Life Expectancy/Low Noise Fans

APPROVALS:

- FCC Class A compliance
CE Mark
CB Certificate: 72161659
UL 60950-1:2007 R10.14
CAN/CSA-C22.2 NO.60950-1-07+A1:2011+A2:2014
- International Common Criteria Certification - EAL Certified
- NCDSMO Evaluated Diode List

**ISO**

- Manufactured using ISO9001:2015 certified quality program

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.)

MEAN TIME BETWEEN FAILURE (MTBF):

- 11+ years

LOCAL ADMINISTRATION:

- VGA connector for monitor
- USB connectors for keyboard and mouse

OWL Cyber Defense

Owl Cyber Defense Solutions, LLC leads the world in data diode and cross domain network cybersecurity. With a constant focus on customers in the military, government, critical infrastructure, and commercial communities, Owl develops market-first, one-way data transfer products to meet a variety of operational needs, from entry level to enterprise.

For more information on Owl, or to schedule a demo, visit www.owlcyberdefense.com