

# OPDS-1000

## Perimeter Defense Solution



### The Owl Solution

The OPDS-1000 is a high bandwidth, all in one, 1U rack mountable cybersecurity solution designed to create a defensive cyber perimeter around plants. Optimized for more demanding industrial control applications, the OPDS-1000 supports software interfaces (connectors) to a broad range of applications that generate business critical data (sensor information, data points, database historians, syslog messages, alarms, etc.). That data is securely transferred to the business network and used for remote monitoring, production planning, and other management tasks.

The OPDS-1000 is EAL certified, has gone through shock and vibration testing and provides a number of physical security features to resist tampering. Licensable bandwidth tiers allow customers to purchase only the bandwidth they need with the knowledge that they can increase bandwidth at any time by moving up to the next tier.

### Next Speed Generation

OPDS-1000 is Owl's next generation all-in-one, 1U rackmount cyber security product. It offers the fastest bandwidth speed (up to 1,000 Mbps) available in a 1U device, it has separate data transfer and admin ports for improved security, the fastest CPUs to date, and uses solid state drives. All integrated with our latest communication cards and operating in a 1U rackmount chassis.

### Flexible Throughputs

The OPDS-1000 supports a maximum of 1,000 Mbps (1 Gbps) but also provides for a number different throughput tiers depending on customer needs. Customers can select from 104 Mbps, 155 Mbps, 310 Mbps, 630 Mbps or 1000 Mbps for their starting configuration. And as a customer's bandwidth requirements increase they can easily upgrade to a new license to meet those needs.

### Physical Self Protection

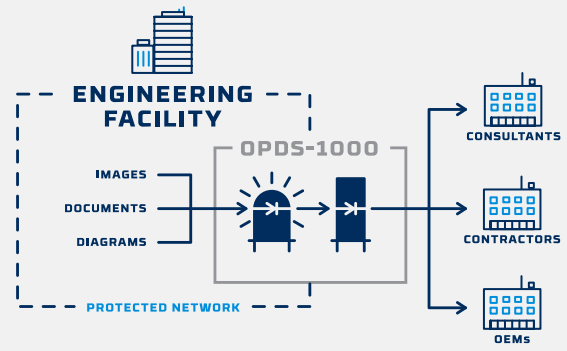
In situations where physical threats can jeopardize network cyber security, the OPDS-1000 protects itself from physical attack with several different security measures. The OPDS-1000 comes with a locking enclosure that includes a special key option. The bottom is attached with rivets instead of screws 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.

### Entry Level. Expandable. Single Device. Easily Deployed.

Serving the cybersecurity needs of a number of commercial and critical infrastructure markets (oil & gas, utilities, power generation, financial services, etc.) the Owl Perimeter Defense Solution (OPDS) product family supports a variety of standards based and vendor specific interfaces. Designed to protect the industrial control systems found at refineries, substations, plants, pumping stations, manufacturing facilities, etc., the OPDS-1000 ensures cyber protection of digital assets within the plant and deterministic one-way only transfer of operational data to end-users outside of the plant.

**SECURE REMOTE MONITORING**

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 data security solution included an OPDS-1000 to transfer files from the protected engineering facility to the third parties while preventing access into their facility. In this deployment, the OPDS-1000 is transferring different file types, of different sizes (up to 2Gb), to multiple third party locations simultaneously. The OPDS-1000 was selected because of the large bandwidth requirements and Owl's reputation and lengthy experience in working with the U.S. DoD.

**Software Interfaces**

OPDS-1000, like all OPDS products, supports a wide range of data formats and transport layer protocols including:

Email (SMTP), FTP/SFTP, Modbus, OPC Foundation (DA, A&E), Remote File Transfer (alarms, events), Remote HMI Screen Replication, SQL Database replication, SNMP Traps, Syslog, TCP transfers, UDP transfers (multicast, unicast).

In addition industrial control solutions from a number of different vendors are also supported, including:

Fox Guard Patch Management, GE Proficy Historian, GE OSM Support, OSIsoft PI System, PAS Alarm Management, Rockwell Automation – RSLinx Classic, FactoryTalk Gateway, FactoryTalk Historian, Rolls Royce PMS, Schneider Electric – RemoteWatch, Wonderware eDNA, Wonderware Historian, Scientech R\*Time

**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: 104 Mbps, 155 Mbps, 310 Mbps, 630 Mbps, & 1 Gbps

**COOLING SYSTEM:**

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

**SHOCK:**

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

**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
- VCCI

**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](http://www.owlcyberdefense.com)