OPDS-100
Perimeter Defense Solution

Entry Level without Sacrifice
OPDS-100 is Owl’s entry level 1U rackmount cybersecurity product. It offers a low, entry level price point without sacrificing functionality, capability or expandability. Designed to support multiple data flows and protocols simultaneously, with expandable bandwidth license keys, no other product on the market offers the same range of capabilities in a single, easily deployable device. See the “Software Interfaces” section for a list of all the different protocols and vendors we support.

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-100 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.

Adaptable Deployment Options
Popular with customers that have single transfer needs, the OPDS-100 provides a spectrum of transfer interfaces to choose from. Customers select the type of data they want to securely move and Owl ships the solution ready to deploy. And if new needs arise, the system can be easily configured to address them. The OPDS-100 even comes in a configuration with a built in V.92 modem for those facilities requiring dial-up access.

Flexible Bandwidth Tiers
The OPDS-100 supports a maximum of 104 Mbps but also provides for a number different throughput tiers depending on customer needs. Customers can select from 10 Mbps, 26 Mbps, 52 Mbps, 104 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.
Software Interfaces

OPDS-100, 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:


Technical Specifications

**OPERATING CONDITIONS:**
- 32°F to +110°F
- 0°C to +43.3°C
- 5% to 90% humidity non-condensing

**POWER SUPPLY:**
- Input: 75-230 VAC
- Estimated normal operating usage: 10-16 W per 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 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

**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
- International Common Criteria Certification - EAL Certified
- VCCI

**ISO:**
- Manufactured using ISO 9001:2015 certified quality program

**CHASSIS:**
- Black anodized aluminum with locking top

**MOUNTING SYSTEM:**
- (1U) Rackmount, tabletop

**NETWORK CONNECTIVITY:**
- Ethernet connection for network traffic
- Physical connectors: 8P8C (RJ45)
- Supports speeds of: 10 Mbps, 26 Mbps, 52 Mbps, & 104 Mbps

**COOLING SYSTEM:**
- Conductive cooling through enclosure side walls with high life expectancy/low noise fans

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)