

OPDS-100D

Optimized for Industrial Control

VARIABLE BANDWIDTH LICENSING

The OPDS-100D supports variable bandwidth licensing, a unique Owl capability, allowing customers to easily upgrade device throughput capacity with a simple software license key. Customers can select from 5 Mbps, 10 Mbps, 26 Mbps, 52 Mbps or 104 Mbps for their starting configuration, and upgrade within minutes if bandwidth requirements increase.

This allows customers to purchase only the bandwidth needed today, with the knowledge that they can quickly and easily increase bandwidth at any time.



The Owl Solution

The OPDS-100D is a one-way data transfer solution built on patented data diode technology and designed specifically for OT networks. It features a compact, vertical form factor with a DIN rail mounting system.

The OPDS-100D is typically deployed at the edge of an OT network and contains the proprietary Owl data diode technology that only physically allows data to flow in one direction. Data generated within a plant, substation, refinery, pump station or any other critical infrastructure facility is transferred across network boundaries to remote users for monitoring, performance, production and maintenance activities.

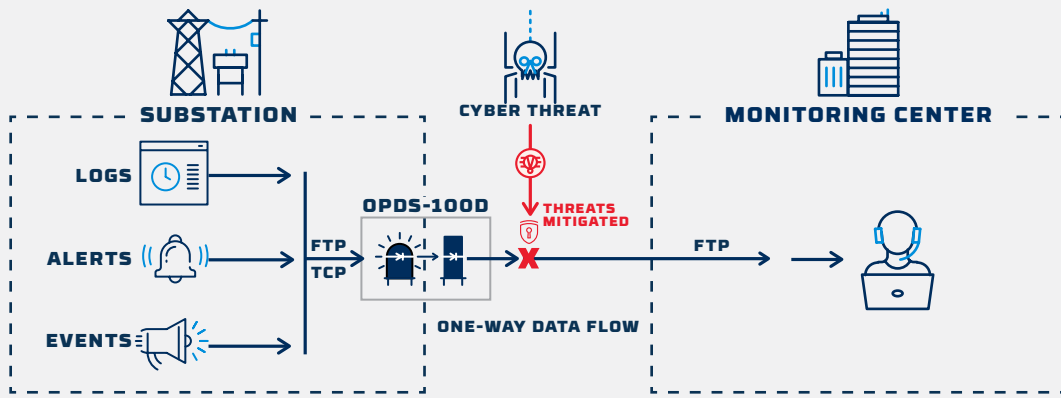
Capable of supporting up to 104 Mbps, the OPDS-100D one-way transfer supports files, packet streaming, and a variety of other data types, protocols and formats.

Single Device, Multiple Uses

The OPDS-100D is an extremely low SWaP, single-device data diode solution, designed for DIN rail environments commonly found in the OT networks of industrial facilities and other critical infrastructure. With the power to support multiple functions simultaneously, the OPDS-100D can transfer files & images, stream video, send email alerts, transfer SNMP traps & syslog messages, and support remote HMI screens. No competing product on the market offers the same range of capabilities in a single, easily deployable device.

Remote Monitoring. DIN Rail Form Factor.

Critical infrastructure operators (power generation, T&D, substations, oil & gas, utilities, telecom, etc.) are taking decisive steps to protect the digital equipment in their operational technology (OT) networks against cyber attacks and threats. To stave off these threats, Owl data diode solutions are commonly used to segment OT networks and protect the SCADA equipment and PLCs operating on them. Deployed at the edge of an OT network, Owl products allow data that is necessary for business operations and resiliency to flow out of the OT network to end users while simultaneously protecting the OT network from any inbound attacks.



SUPPORTED PROTOCOLS, FILE TYPES & DATA FORMATS

Like all OPDS products, the OPDS-100D supports a wide range of data formats and transport layer protocols from a host of different sources, including SCADA systems, PLCs, historians, sensors, and other digital equipment located on the OT network.

These Include:

- Email (SMTP)
- FTP/SFTP
- Modbus
- OPC Foundation (DA, A&E)
- Remote file transfer (alarms, events)
- remote HMI screen replication
- SIEM
- SNMP traps
- Syslog
- TCP transfers
- UDP transfers (multicast, unicast)

Technical Specifications

OPERATING CONDITIONS*

- -40°F to +140°F / -40°C to +60°C
- 5% to 90% humidity non-condensing

POWER SUPPLY

- Input: 9-36V DC
- Estimated Normal Operating Usage: 10-15W per side
- Max. 20W Per Side
- Optional AC Power Brick (not provided)

CHASSIS SIZE

- 1.92" W x 6.132" H x 5.5" D
- 4.88 cm x 15.58 cm x 13.97 cm

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)

MOUNTING SYSTEM

- DIN Rail (1") Mount, tabletop

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 supplemented by adaptive active cooling based on system temperature control

APPROVALS

- FCC Class A compliance w
+ CE Mark
- CB Certificate: Report 31780392.001
- EN 60950-1:2006 +A11:2009 A1:2009 A1:2010 + A12:2011 + A2:2013
- 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

UNIT WEIGHT:

- 2 lbs, 7 oz / 1.1 kg.

MEAN TIME BETWEEN FAILURES (MTBF):

- 11 years

NETWORK CONNECTIVITY:

- Separate Ethernet connections for network traffic and remote administration
- Physical connectors: 8P8C (RJ45)
- Supports 10BASE-T, 100BASE-TX, 1000BASE-T

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



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