

Owl Talon One™

Bidirectional Data Diode

Secure, Flexible, Bidirectional Transfers

Key Features

- Secure, hardware-enforced, bidirectional transfers
- Transfer multiple, simultaneous data types & protocols on a single device
- Easy-to-use, web-based user interface
- Long-lasting, set-and-forget reliability
- Compact 2x 1U hardware form factor
- Up to 1 Gbps max throughput
- Advanced security features including SELinux enforcement, STIG-compliant OS, BIOS password, and disk encryption

Supported Protocols

- Remote Desktop

Supported Platforms

- OnLogic MK100 bidirectional configuration

Use Cases

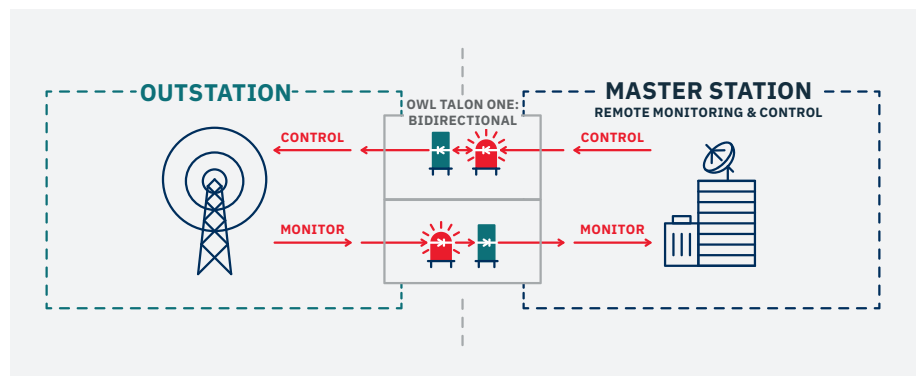
- Communication between client and server
- Remote access
- Remote command and control
- Remote monitoring
- Safety system isolation
- No direct pass through of TCP/IP traffic

Owl Talon: The Data Diode, Reinvented.

Building on a quarter century of one-way networking expertise and customer feedback, Owl Talon™ is the latest, revolutionized iteration of Owl's award-winning, NSA-approved data diode platform, designed for fast and easy configuration, unmatched interoperability, and secure, reliable operation. In cases where organizations need to secure bidirectional communications, the Owl Talon One: Bidirectional Data Diode can provide secure two-way connections between networks.

Owl Talon One: Bidirectional

The **Owl Talon One: Bidirectional** is a hardware-based cybersecurity solution that gives organizations the ability to provide secure round trip, bidirectional communication. The Owl Talon One: Bidirectional leverages 2x 1U OnLogic MK100 hardware platforms, Owl Talon software and the Owl Talon One Data Diode Card. Each 1U rack-mountable data diode assures a separate path - each enabling only one direction (send or receive) of the data transfer and each completely independent from the other together - thus creating a complete bidirectional pathway in one device.

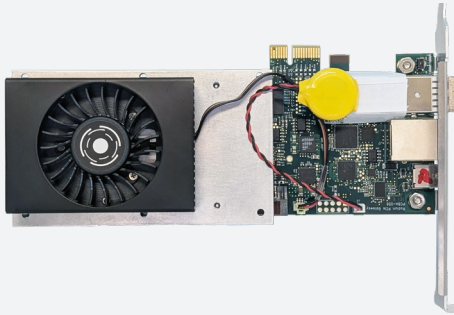


Unmatched Ease of Use

Featuring a modern, web-based user interface, the Owl Talon software platform is extremely easy to use. In just minutes, you can configure your data flows from source to destination, getting you up and running faster than ever before.



Talon 3 User Interface



Owl Talon One™ Data Diode Card

The Owl Talon One (OTO) data diode card is a protocol filtering data diode designed on a single PCIe card that transfers data one-way at up to 1 Gbps. By leveraging an FPGA-based architecture and System-on-Module (SOM) with an embedded processor, this single card can perform the work typically done by separate send and receive data diode cards with the same security level and hardware-enforced separation.

Technical Specifications (per server x2)

Case

19" 1U Rackmount Chassis with 4-wire PWM

Processor

1 x Intel Xeon

Memory (RAM)

1 x 8GB DDR5 UDIMM

Primary Storage

1 x 128GB SATA SSD

Power Supply

1 x 300W Flex-ATX Power Supply – US Power Cord

Input: 100–240 VAC

Estimated Normal operating usage: 120 Watts

Mounting

Rackmount ears + half-depth rackmount Sliding Rail Kit

Interfaces

Front:
2 USB (3.0)

Rear:

1 DB15 (VGA)
2 RJ45 (1GbE), 1 dedicated IPMI
2 Type A (USB3.2 Gen1)
1 UID button, 1 UID LED

OTO Data Diode Card:

2 RJ45 (1GbE)

Dimensions

Chassis Size:
With Mounting Ears:
482.6mm W x 257.1mm D
x 44.4mm H

Without Mounting Ears:

431.8mm W x 257.1mm D
x 44.4mm H

Unit Weight:

4.35 kg / 9.59 lbs.

Operating Conditions

10 - 35 C, 20% ~ 90% non operation humidity (non condensing)

Approvals/Certifications

Pending regulatory certification



Owl Cyber Defense Solutions, LLC, headquartered in Columbia, MD, leads the industry in data diode and cross-domain network cybersecurity solutions for faster, safer and smarter decision making. We create solutions tailored for high-risk sectors including the military, government and critical infrastructure. Our advanced technologies enable secure, near-instantaneous collaboration, bridging network barriers to protect critical missions. With a focus on scalability and interoperability, Owl ensures that organizations can maintain secure, reliable, and compliant communication channels against evolving cyber threats.

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

