

Owl Talon One™

1U Data Diode

Secure, Flexible, Easy One-Way Transfers

Key Features

- Secure, hardware-enforced, one-way data 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 1U hardware form factor
- Up to 1 Gbps max throughput
- Advanced security features including SELinux enforcement, STIG-compliant OS, BIOS password, and disk encryption
- NSA-Evaluated Radium PCIe Protocol Filtering Diode (PFD)

Supported Protocols

- TCP
- UDP (unicast, multicast, broadcast)
- NTP
- Syslog
- SMTP (email)
- SNMP Traps
- File Transfer
- OPC DA/A&E
- Remote Screen View
- AVEVA PI Transfer
- Remote Desktop

Supported Platforms

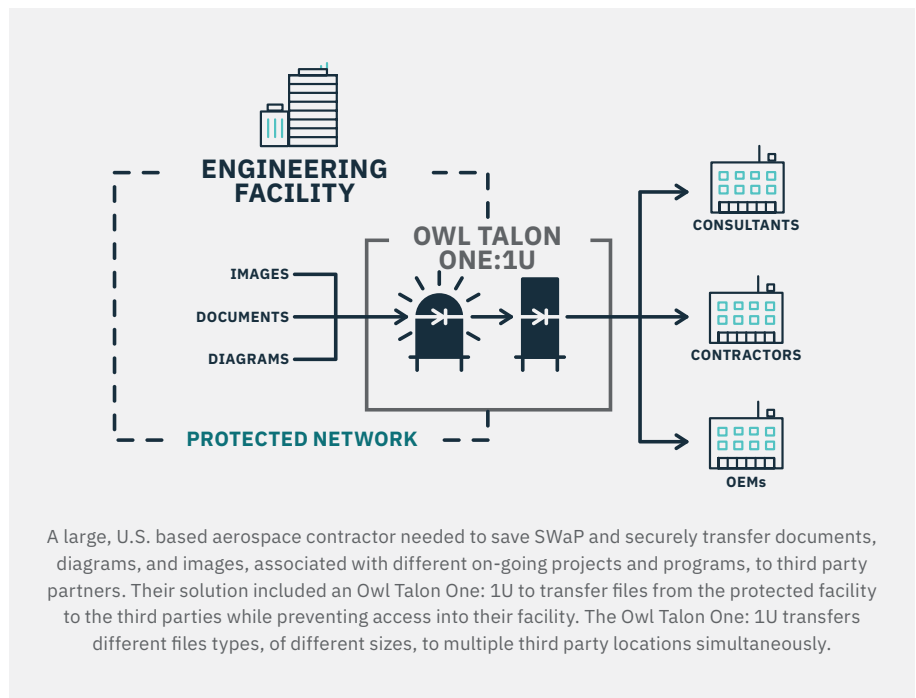
- OnLogic MK100

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 industrial strength platform with enhanced hardware enforced separation using the Owl Talon One Radium PFD, designed for fast and easy configuration, unmatched interoperability, and secure, reliable operation.

Owl Talon One: 1U

The Owl Talon One: 1U supports all current protocols and data types in Owl Talon software, which is offered in three convenient tiers, allowing you to choose the option that best fits your organization's needs. To save you additional time and space, it can support multiple, simultaneous data flows and protocols on one device. With an extensible foundation to support a variety of OT and IT protocols and applications, Owl Talon One: 1U enables a broad range of one-way data transfer use cases.



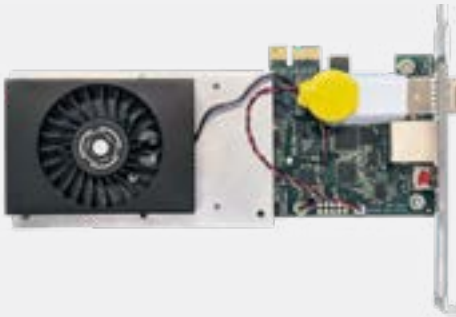
A large, U.S. based aerospace contractor needed to save SWaP and securely transfer documents, diagrams, and images, associated with different on-going projects and programs, to third party partners. Their solution included an Owl Talon One: 1U to transfer files from the protected facility to the third parties while preventing access into their facility. The Owl Talon One: 1U transfers different files types, of different sizes, to multiple third party locations simultaneously.

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

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

NSA Authorization of the Radium PFD



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

