Owl Talon® One

1U Data Diode

Secure, Flexible One-Way Transfers

Key Features

- → 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
- → High Availability configuration available for can't fail environments
- → Advanced security features including TPM binding, SELinux enforcement, STIG-compliant OS, BIOS password, and disk encryption
- → U.S. Government evaluated and listed XDE Radium Protocol Filtering Diode (PFD)
- → Owl Talon One, based on XDE Radium diode has achieved Common Criteria EAL4+ Certification

Supported Protocols

- → TCP
- → UDP (unicast, mulitcast, broadcast)
- → NTP
- → Syslog
- → SMTP (email)
- → SNMP Traps
- → RFTS (file transfer)
- → OPC (DA/A&E, UA)
- → Remote Screen View
- → AVEVA PI Transfer (OPTS)
- → Remote Desktop
- → MQTT
- → SFTP
- → HTTP/HTTPS

Supported Platforms

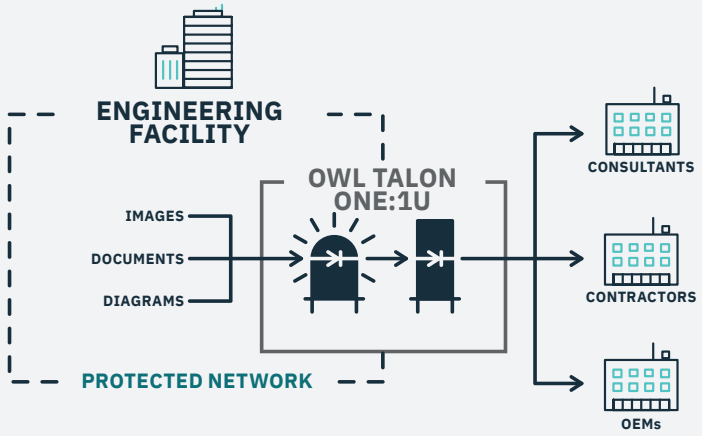
- → OnLogic MK100

Owl Talon: The Data Diode, Reinvented

Backed by 25+ years of one-way networking expertise, Owl Talon® is a high-assurance data diode platform engineered to deliver the security, agility, and scalability critical operations demand. Its intuitive interface and flexible support for diverse environments enable fast, easy configuration and unmatched interoperability, while multiple layers of security ensure uncompromising one-way data transfer across critical network boundaries. Owl Talon's new Extensibility Framework enables organizations to realize custom features at the speed of business, without compromising the trusted security Owl Talon is known for. The Owl Talon One (OTO) Data Diode Card features enhanced hardware-enforced separation and consolidating multiple data flows and protocols onto a single card that does the work of two, reducing footprint and deployment time.

Owl Talon One™: 1U

The Owl Talon One:1U is an all in one rack-mountable appliance that leverages the Owl Talon One Data Diode Card for protocol filtering one-way transfer at up to 1 Gbps and supports all current protocols and data types in Owl Talon software. To save you additional time and space, it can support multiple, simultaneous data flows and protocols on one device and 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.

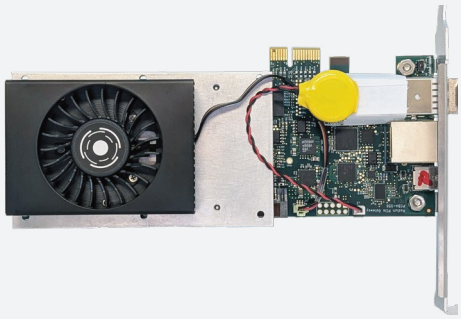


A large, U.S. based aerospace contractor needed to save SWaP and securely transfer documents, diagrams, and images, associated with different on-going projects and programs, to third party partners. Their solution included an Owl Talon One: 1U to transfer files from the protected facility to the third 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 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

Mounting

Rackmount ears + half-depth rackmount Sliding Rail Kit

Power Supply

1 x 300W Flex-ATX Power Supply – US Power Cord
Input: 100~240 VAC

Estimated Normal operating usage: 120 Watts

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

FCC Class A compliance

CE Mark

VCCI Class A compliance

Owl Talon One, based on XDE Radium diode has achieved Common Criteria EAL4+ Certification

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OWL Cyber Defense™

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**