

Owl Talon One™

DIN-Rail Data Diode

Hardware-Enforced Protocol Filtering Diode for Secure, One-Way Transfer

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 DIN-rail compatible hardware form factor
- Up to 1 Gbps max throughput
- Advanced security features including 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 Card is based on the XDE Radium module, which has achieved Common Criteria EAL4+ certification

Supported Protocols

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

Supported Platforms

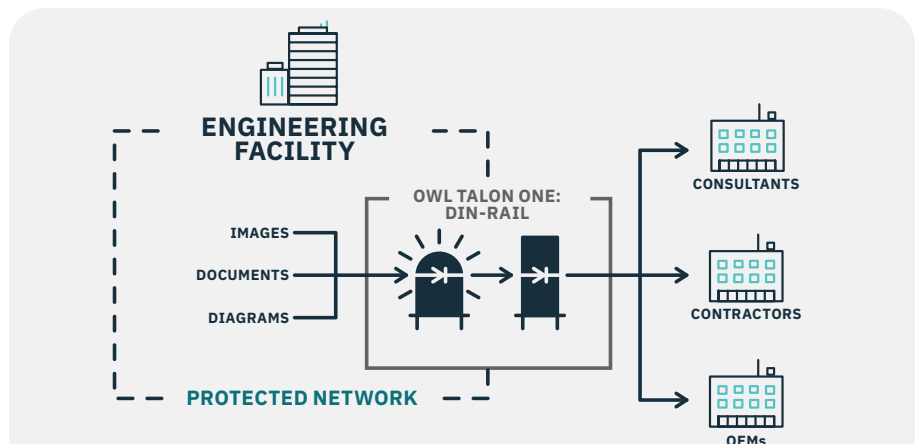
- OnLogic HX600

Owl Talon: The Data Diode, Reinvented.

Building on more than a quarter century of one-way networking expertise, Owl Talon™ is the latest iteration of Owl's award-winning, industrial-strength data diode platform. Designed for fast and easy configuration, unmatched interoperability, and secure, reliable operation, it features enhanced hardware-enforced separation via the Owl Talon One (OTO) Data Diode Card. A single OTO Data Diode Card performs the work of two separate cards and incorporates a revolutionary system-on-module architecture and leverages Owl's XDE Radium core diode technology. XDE Radium is a miniature FPGA-based diode technology, which has been evaluated, approved and listed by the U.S. Government to meet Protocol Filtering Diode (PFD) requirements.

Owl Talon One: DIN-Rail

The Owl Talon One: DIN-Rail is an all in one DIN-Rail-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: DIN-Rail enables a broad range of one-way data transfer use cases.



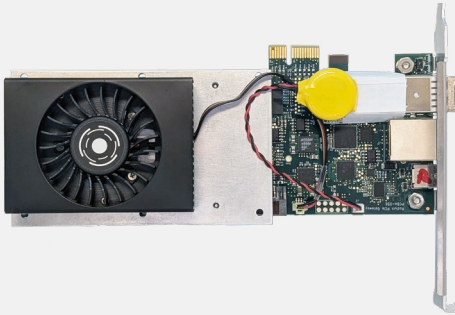
A large, U.S. based aerospace contractor needed to save SWaP and securely transfer documents, diagrams, and images, associated with different on-going projects and programs, to third party partners. Their solution included an Owl Talon One: DIN-Rail to transfer files from the protected facility to the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

Fanless compact aluminum industrial PC

Processor

1 x Intel Core i3-10100TE

Memory (RAM)

1 x 8GB DDR5 UDIMM

Primary Storage

1 x 128GB SATA SSD

Power Supply

1 x 220W Power Supply w/ 4-pin Connector, US Power Cord
Input: 100~240 VAC
Estimated Normal operating **usage:** 120 Watts

Mounting

DIN Rail Mounting Kit

Interfaces

Front:

4 USB A (USB3.2 Gen 2)
1 Power Button
1 Sim Card
1 Audio Jack: Line-out, Mic-In

Rear:

2 USB (USB3.2 Gen 2)
2 USB (3.2 Gen 2)
2 Gb LAN Ports
3 Display Ports
112 ~ 24 V, 4-Pin DC Jack

OTO Data Diode Card:

2 RJ45 (1GbE)

Dimensions

Chassis Size:

303 x 65 x 210 mm /
11.93" x 2.56" x 8.27"

Unit Weight:

3.44 kg / 7.47 lbs

Operating Conditions

0 – 50°C, 90% Operating maximum humidity (non condensing)

Approvals/ Certifications

U.S. Government evaluated XDE Radium Protocol Filtering Diode (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

