

Accredited. Proven. Flexible. Readily Deployable.

The task of moving critical data between networks of varying security levels and security policies continues to evolve. The security boundary requiring protection may be in the enterprise data center, in a field-forward CP, perhaps even in the mobile vehicle. Multiple types of data must cross the domain edge. Owl CDS-SFF is designed to satisfy the need for robust one-way functionality in a small form-factor, (low size, weight and power, swap) integrated package.

The Owl Solution

The OCDS-SFF is designed to deliver robust one-way transfer functionality in an all-in-one, small form-factor integrated package. Featuring low size, weight and power (SWaP) requirements, this 1U, single box solution is capable of transferring data between networks of varying security levels and security policies. Whether the CDS requirement is for an enterprise data center, a field-forward combat position or perhaps even in a mobile vehicle, the OCDS-SFF offers the flexibility to meet each of these needs.



OCDS-SFF

The OCDS-SFF is a one-way data transfer solution, supporting multiple data types, formats and data streams concurrently across a single rack-mountable chassis. Within the 1U chassis is the proprietary Owl DualDiode® Technology. Designed to provide deterministic one-way only data transfers, the DualDiode has fully integrated Send-only and Receive-only communication cards connected via an internal fiber optic link operating at speeds of 26Mbps - 1,000Mbps(1Gbps).



Locked Down Support

OCDS-SFF is focused on a single target: to provide certifiable, absolute one-way transfer, total network isolation and discrete domain separation.

Operating on a locked-down Secure Extensions LINUX OS, the OCDS-SFF assumes nothing. It trusts nothing. It is deployed with a STIG-compliant Certifiable Linux Integration Platform (CLIP) operating system and allows no back channel compromises.

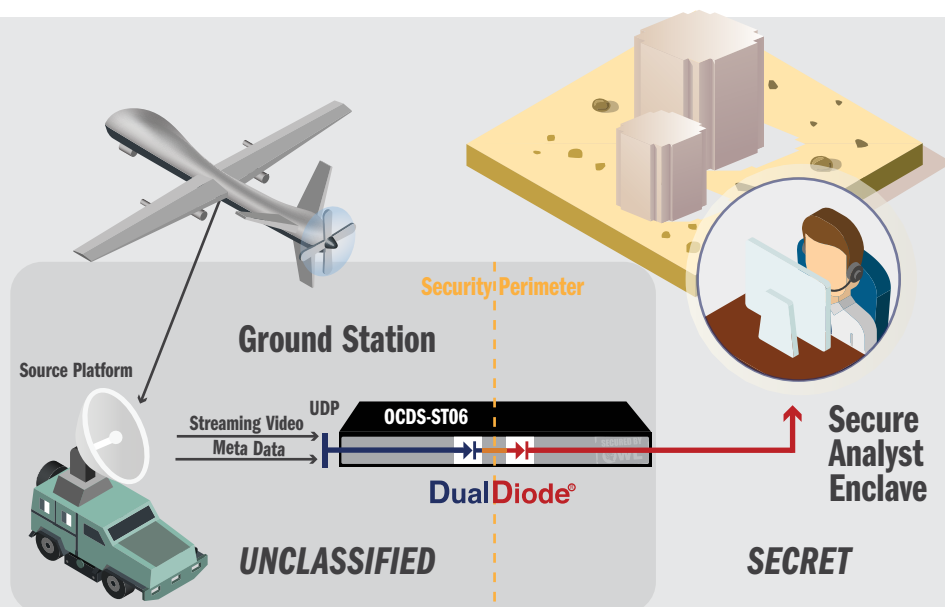


What is DualDiode® Technology?

DualDiode® products from Owl are engineered to segment and isolate networks that simply cannot afford to be compromised. This patented hardware design allows data to only flow in one direction. Utilizing a true protocol break, the DualDiode conceals all IP and MAC address information and prevents unwanted network probes. The modular simplicity of DualDiode products, their bandwidth capacities – and the range of user data/information types they support – provide integration and scaling flexibility while maintaining the highest levels of network security.

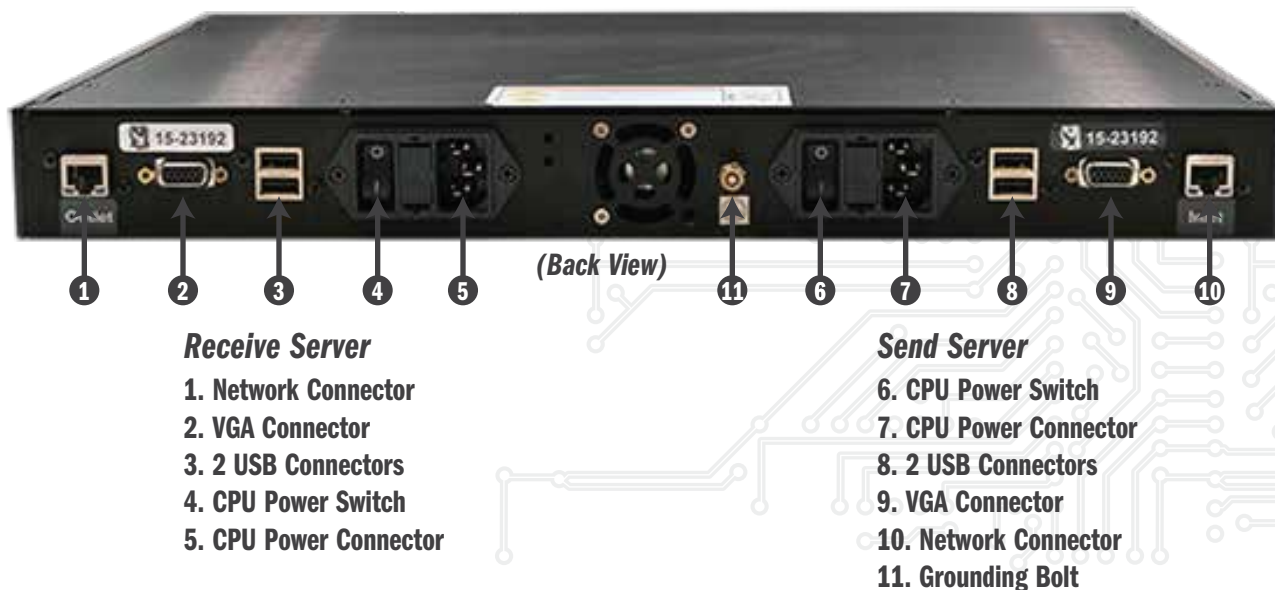
USE CASE: OCDS-ST06 in Action

UAV field assets supporting ISR activities transfer full-motion video data as UDP packets to the ground station. Owl's DualDiode Small Form Factor (SFF) CDS, installed at the ground station, takes multiple inbound UDP streams and multiplexes them into one stream for transfer across the domain boundaries to the Secret network. The proprietary data diode applies filters to the remotely collected Unclassified video and meta data and safely streams it to analysts at the Secret enclave.



Technical Specifications

- **Operating Conditions:** 32°F to 110°F 0°C to 43.33°C 20% to 85% humidity non-condensing
- **Power Supply: Input:** 100-240V AC 50-60Hz auto-ranging, min. 30W per side (fused at 1A at IEC connector)
- **Power Consumption:** BLUE Inlet Send-only side -- 20W max Nominal = 17.6 W Standby = 5.5 W RED Outlet Receive-only side -- 20W max Nominal = 17.5 W Standby = 5.5 W
- **Storage:** -40°F to 158°F -40°C to 70°C 5% to 95% humidity non-condensing
- **Safety Standards:** UL60950-1, TUV EN60950-1 approved
- **Transport Testing:** Random Vibration and Loose Cargo Transportation Tests -- MIL-STD-810F
- **Chassis:** Black powder-coated aluminum & aluminum sheet Mounting System: 19" (48.3 cm) rackmounting; tabletop or shelf-mount
- **Cooling System:** High-efficiency fan system with low system acoustic noise level
- **Chassis Size:** 16.5" W x 1.75" H x 13" D 41.91 cm x 4.5 cm x 33 cm
- **Unit Weight:** 7.92 lbs./3.6 kg.
- **Shipping Size:** 18" W x 8.5" H x 15" D 45.7 cm x 21.6 cm x 38.1 cm
- **Shipping Weight:** 12.2 lbs./5.5 kg.



About Owl

For over 16 years Owl Computing Technologies has been implementing next generation cybersecurity solutions for critical networks. Owl's DualDiode Technology®, a proprietary data diode, boasts 24 technology patents and has over 2,000 successful deployments globally across intelligence, government, military, utility, energy, and other critical infrastructure networks. Owl's hardware-enforced technology ensures secure networks and enables the reliable and robust transfer of all data types and file sizes.