Owl Computing Technologies®

OWL 002TV

Owl 002 Tactical Vehicle One-Way Technology

Users have expressed a need for a small form-factor, rugged, one-way data transfer product, that will withstand a wide range of tactical operating conditions. Owl has miniaturized its proprietary DualDiode™ technology in such a platform, to deliver a reliable, cost-effective product with the bandwidth and speed required for tactical deployment.

Ruggedized Mobile Cross-Domain

Owl 002TV is designed to meet a full range of environmental requirements for mobile and deployed systems -- to be tested to MIL-STD-810F for shock, vibration, temperature, sand and dust. It will also be tested to MIL-STD-461E, for conducted and radiated emissions and susceptibility. Owl 002TV may be mounted and deployed in a number of environments. It is designed for in-vehicle use, where operational conditions (including exposure to moisture) dictate robust, resilient design and performance.

Owl 002TV shown with military-grade USB connectors

The product supports USB-based connectivity. USB-connecting devices (in-vehicle processors, environmental sensors, laptops, PDAs, vehicle communication gear, etc.) independently power the Send-only and Receive-only sides of the Owl 002TV one-way transfer. Other types of connectivity (i.e., EIA232 serial, Ethernet) are being evaluated -- call/email for more information.

From low to high, one-way security policy absolutely assures the confidentiality of the high security domain. From high to low, one-way security policy prevents penetration of the high-security domain, assuring that data transfer can only be initiated from the high side.

Owl 002TV is fully functional today, with channel capacity of approximately 2Mbps. Power consumption is very low. Data filters and device identification signatures may also be built into the device.

Universal Serial Bus (USB) Background

Introduced in 1995, USB has become a standard means of connecting computers, peripheral & mobile devices. USB-connected devices are simple to install, and may be connected & re-connected freely, without interrupting system operation. The Owl 002TV solution continues the expansion of Owl Computing hardware-enforced, one-way data transfer DualDiode technology from server-room enterprise environments to embedded or mobile connections, directly serving the warfighter.

DualDiode TECHNOLOGY

SECURE. RELIABLE. FAST.

Specifications:

Weight:
< 1 lb.

Dimensions:
1.55 x 5.87 x 2.6 inch; aluminum encl sure; black powder-coated finish

Input Power:
USB-host power or optional 9-36 VDC

Connectors:
USB military-grade configurations; other connector options under evaluation
Environmentally sealed against dust, water

Operating Temperature:
-40 to 85°C

In the Enterprise Core
At the Tactical Edge

SECURED BY OWL

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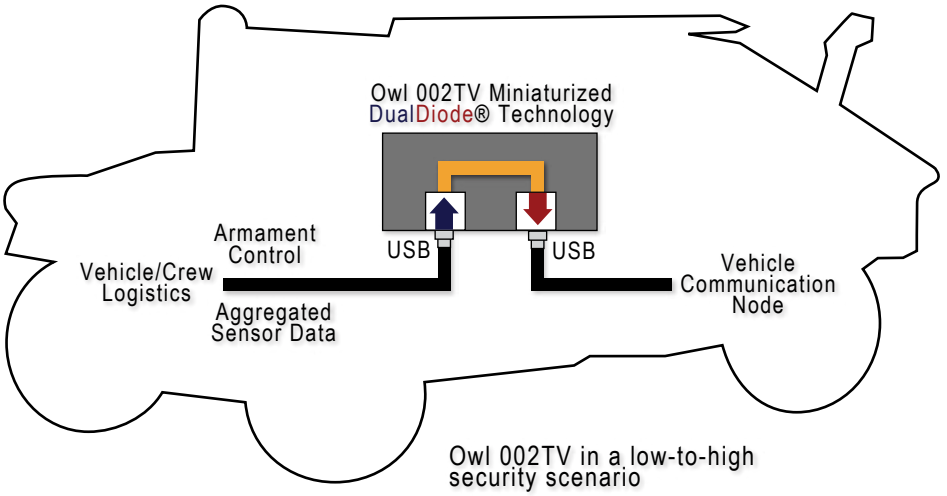
OWL 002TV



Owl 002TV in a low-to-high security scenario

DualDiode® Technology

A pair of Owl Communication Cards (Send-only and Receive-only), with Owl internally developed drivers, forms a Dual in-line Diode; each card is custom-manufactured to permit one-way-only data transfer. Security for the one-way transfer is enforced at both the send and receive nodes in this exclusive Owl design - neither diode requires a trusted state with the other. Application-specific software (for files, TCP packets, etc.) completes the individual Owl product offering.

Owl One-Way DualDiode Technology design securely protects the send- and receive-network domains. No information of any kind, including handshake protocols (TCP/IP, SCSI, USB, serial/parallel ports, etc.), pass from the destination computer/network back to the source computer/network. Owl's one-way transfer is a dedicated point-to-point link and requires no additional machine configuration (such as IP). This "trust-nothing" design ensures that data residing on each isolated network is fully protected.

Owl products have "Authorization-to-Operate" ATO status within many government agencies. There are over 1000 deployments Secured by Owl throughout the Department of Defense and the US Intelligence community, and the industrial control system industry.

About Owl Computing Technologies: a U.S.-owned & operated Small Business Owl Computing Technologies, Inc., based in Ridgefield, Connecticut, is a privately funded US company.

Owl has an exclusive licensing agreement with Sandia National Laboratories, with worldwide rights to develop and market products originally based on Sandia's patented data diode technology. Sandia National Laboratories is a U.S. National Laboratory operated by Sandia Corporation, for the U.S. Department of Energy.

Owl Computing develops and markets Secure Information Transfer Systems for files and directories, UDP- and TCP-based traffic, for multiple streaming video sessions, and other formats — please call for more information.