OWL Cyber Defense

DiOTa™

Affordable. Easy to Use. Simply Secure.

KEY FEATURES

- Unhackable, hardware-enforced security
- Lightweight, low overhead design ideal for the IIoT, IoT
- Affordable pricing that scales with deployment
- User friendly with fast and easy setup and configuration
- Little-to-no ongoing management for lowest TCO

Revolutionizing the Data Diode

Data diodes are no longer the complex, expensive solutions of the past. DiOTa provides a low cost, easy-to-use, minimal overhead data diode cybersecurity solution designed to protect digital assets and provide secure data transfers with low-bandwidth requirements. This hassle-free device combines the unhackable security and minimal maintenance of hardware-enforced data diodes with an all new user interface and easy setup, all at a lower total cost of ownership than firewalls.

Built for the IIoT

As endpoints are rapidly multiplying and new connections proliferate, DiOTa provides a fit-for-purpose solution to secure the new landscape of IIoT devices, including distributed and remote OT assets, and cloud connectivity. It can be deployed at the edge of the operational technology (OT) environments or right at endpoints for 1:1 secure one-way transfer of SCADA, SIEM, files, and other data to external users or platforms. Even traditionally off-limits devices such as safety systems can be safely connected directly to the cloud.

No Expertise or Updates Required

Take control over your OT security. Unlike competing solutions, including software-based firewalls, DiOTa requires little to no specialized resources for setup, ongoing configuration management, or software updates. It can be set up in minutes with no security expertise required. Unlike IT security solutions, DiOTa is designed to last over 10 years to secure OT digital assets for their entire lifetimes on a single, easy configuration. There simply is no other solution available that combines this level of security at a lower TCO or higher ease of use.

Mass Deployments at a Fraction of the Cost

With affordable pricing that scales with deployment, get up and running quickly and stay secure for years with zero training and little to no upkeep costs.

CO$T:	ACQUISTION	INSTALLATION	TRAINING	MAINTENANCE
DiOTa	✓ Low	✓ Low	✓ None	✓ None
Firewalls	✓ Low	✗ High	✗ High	✗ High
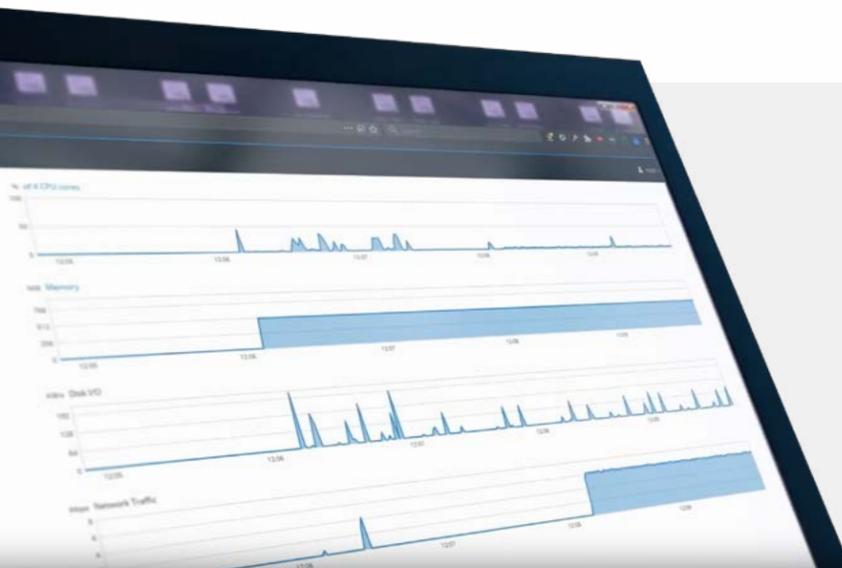
Intuitive UI for an Effortless User Experience

DiOTa's completely new user interface features an intuitive, browser-based administration tool, making it extremely easy to set up and configure. Simply set up basic source and destination network information, select a protocol, open the client and start the server. That's it. No specialized skillset or security experience required. Most users are up in running within minutes, not hours or days. Sit back and watch the data flow across DiOTa in real-time via the built-in dashboard visualization tool.

No Special Skills Required

Easy to Use Setup Wizard

Zero Ongoing Maintenance

Do Less, Secure More

While software firewalls often lure in customers with low upfront costs, they tend to conceal their biggest financial burden - the resources required for ongoing, long-term maintenance. For OT/IIoT environments with limited security resources, DiOTa provides far greater security without any of the burden and stress of onerous configuration, patching and updates, and policy management. It can be maintained on a shoestring budget or left completely alone – no misconfiguration or unpatched vulnerabilities to worry about.

20 Mins
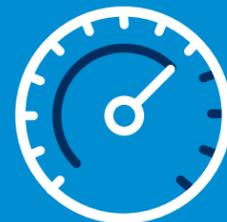
While most competing solutions can take **hours or days** to install and configure, DiOTa can be up and running in less time than your last coffee break.

Simple, Compact, and Lightweight

DiOTa is specifically designed for the requirements of modern OT environments and micro-segmentation (1:1 protection) of digital assets within the IIoT. Its extremely low SWaP (size, weight, and power) requirements are ideally suited for the security and data collection from edge, remote, and distributed assets without adding significant overhead. Built on an ARM-based, secure hardware platform, DiOTa allows for optional DIN-rail mounts, taking up minimal space after installation.

HEIGHT	WIDTH	DEPTH	WEIGHT
• 6.75"	17.15 cm	• 1.75"	4.44 cm	• 5.75"	14.48 cm	• 1 lb	0.45 kg

SEPARATE DATA & ADMIN PORTS

POWER:
DC (TOP)
AC (REAR)

DIN RAIL COMPATIBLE MOUNT (OPTIONAL)
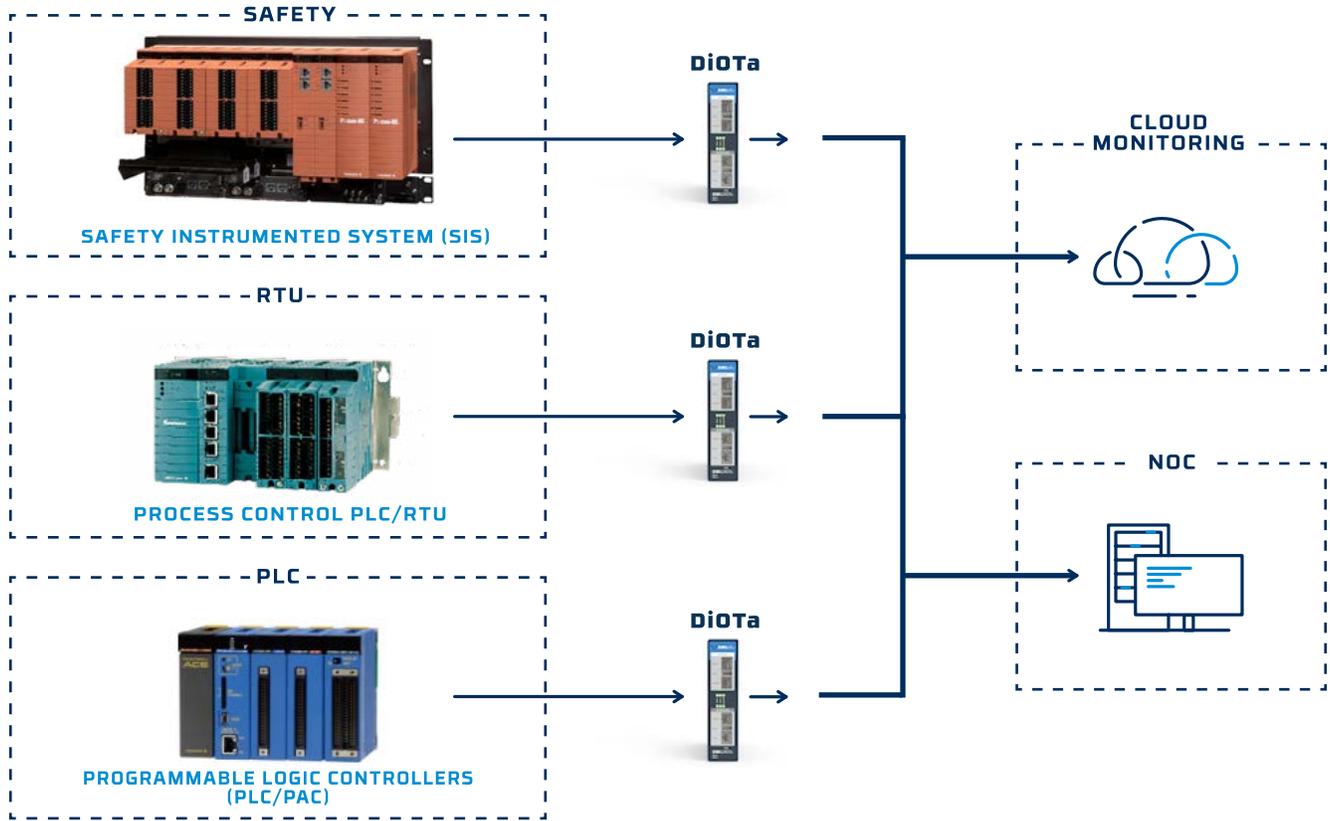
SIMPLE PUSH-BUTTON RESET

Unhackable Security

Sophisticated threats can use coordinated, persistent tactics to overcome firewalls, advanced RBAC, passwords, multi-factor authentication, and even biometrics, but jumping the physical gap in a data diode with electronic tools remains impossible. While firewalls are enforced by configurable code and policy, DiOTa is physically enforced with a hardware-based security mechanism and provides 100% confidentiality and segmentation between networks.

DiOTa is also not vulnerable to the software bugs, zero-day exploits, or misconfiguration that plague firewall solutions, and provides something firewalls simply cannot: protection from the unknown. The device does not need regular patching or maintenance to stay secure, and the enforcement mechanism never becomes less effective over time.

Call **203-894-9342** or email **Sales@owlcyberdefense.com**

Our team is always available to meet your cybersecurity needs.

Securely Enable Cloud Connectivity

Securely connect devices to the cloud in minutes with zero risk. DiOTa's hardware-enforced security means users no longer have to worry about adding firewall rules in the DMZ and Enterprise zones of a traditional Purdue Model each time a device is added. In addition, the unhackable nature of the device means data from even previously untouchable devices such as safety instrumented systems can be securely connected directly to cloud platforms or monitoring centers for analysis.

USE CASE

SAFETY — SAFETY INSTRUMENTED SYSTEM (SIS) → DiOTa → CLOUD MONITORING

RTU — PROCESS CONTROL PLC/RTU → DiOTa

PLC — PROGRAMMABLE LOGIC CONTROLLERS (PLC/PAC) → DiOTa → NOC

Technical Specifications

OPERATING CONDITIONS
- -4° F to +113° F / -20° C to +45° C
- 5% to 90% humidity non-condensing

POWER SUPPLY
- Input: 9-25V DC
- Estimated normal operating usage: 10W total
- Connector Options
  + **Option 1** - AC power brick with barrel connector (included)
  + **Option 2** - DC power phoenix connector (DIN-rail clip included)

MOUNTING SYSTEMS
- Tabletop, DIN-rail (optional)

APPROVALS
- FCC Class B compliance
  CE mark
  CB certificate
  IEC/EN 62368-1
  CAN/CSA-C22.2 62368-1:2014
  VCCI
  TUV
- Based on EAL certified technology

ISO
- Manufactured using ISO9001: 2015 certified quality program

MAX BANDWIDTH
- 5 Mbps

CHASSIS SIZE & WEIGHT
- 1.75" W x 6.75" H x 5.75" D
- 4.44 cm x 17.15 cm x 14.48 cm
- 1 lb / 0.45 kg

SUPPORTED PROTOCOLS
- TCP, UDP, & Files

MEAN TIME BETWEEN FAILURES (MTBF)
- 10 years

NETWORK CONNECTIVITY
- Separate ethernet connections for network data and administrative functions
- Physical connectors: 8P8C (RJ45)
- Supports 10BASE-T, 100BASE-TX

OWL Cyber Defense

Owl Cyber Defense Solutions, LLC leads the world in data diode and cross domain network cybersecurity. With a constant focus on customers in the military, government, critical infrastructure, and commercial communities, Owl develops market-first, one-way data transfer products to meet a variety of operational needs, from entry level to enterprise.

For more information on Owl, or to schedule a demo, visit www.owlcyberdefense.com

@OwlCyberDefense   203-894-9342 | Sales@owlcyberdefense.com