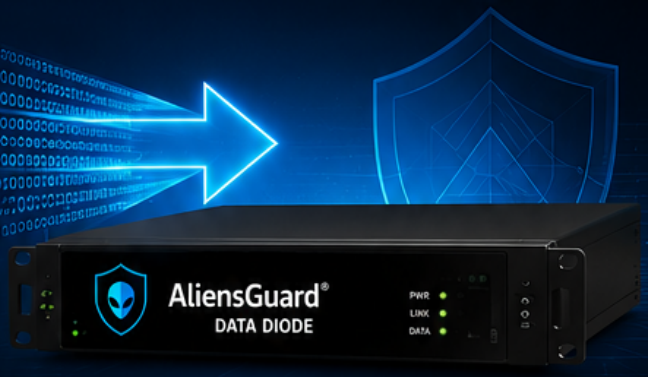
AliensGuard®
DATA DIODE

ONE-WAY DATA FLOW.
ZERO INBOUND RISK.

ALIENSGUARD DATA DIODE

COMPETITIVE BENCHMARK ANALYSIS

Next-Generation, Hardware-Enforced One-Way Security for IT & OT Environments



OVERVIEW

This report compares leading Data Diode solutions across key parameters including security architecture, performance, scalability, deployment, and total cost of ownership.

AliensGuard delivers a high-speed, hardware-enforced one-way communication platform purpose-built for critical IT and OT environments at a significantly lower total cost of ownership.

KEY DIFFERENTIATORS

- **True Hardware Enforcement** — Physically impossible to hack
- **IT, OT & Cloud Ready** — Seamless integration across environments
- **High Performance & Scalability** — Up to 40 Gbps (Under R&D)
- **Cost-Optimized Solution** — Best performance at lowest TCO

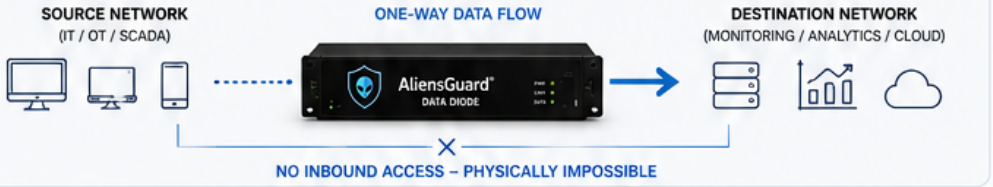
COMPETITIVE COMPARISON

FEATURE	AliensGuard® DATA DIODE	Competitor A (Brand 1)	Competitor B (Brand 2)	Competitor C (Brand 3)
One-Way Hardware Enforcement	✔ Yes	Yes	Yes	Yes
Max Throughput	Up to 40 Gbps (Under R&D)	Up to 10 Gbps	Up to 1 Gbps	Up to 100 Mbps
OT / SCADA / ICS Support	Yes	Limited	Limited	No
IT Network Support	Yes	Yes	Limited	No
Deployment Complexity	Low	Medium	High	High
Form Factor	1U Rack-Mount Compact	1U / 2U	2U	1U
Total Cost of Ownership (TCO)	★★★★★ (Very Low)	★★★☆☆ (Medium)	★★☆☆☆ (High)	★☆☆☆☆ (Very High)
R&D & Innovation	Continuous Innovation	Limited	Limited	None
Support & Services	Global R&D & Partner Support	Regional	Regional	Limited

WHY CHOOSE ALIENSGUARD DATA DIODE?

- Hardware-enforced one-way communication (physically impossible to hack)
- Supports IT, OT, and Cloud integration
- Scalable speed—up to 40 Gbps (under R&D)
- Affordable total cost of ownership
- Global R&D support and partner-ready model
- Compact 1U rack-mountable design for easy installation

ALIENSGUARD DATA DIODE ARCHITECTURE



KEY INDUSTRY APPLICATIONS

- **Power & Energy** (Nuclear, Grid, Substations)
- **Oil & Gas**
- **Manufacturing & Industrial Automation**
- **Healthcare Systems**
- **Government & Defense**

KEY TAKEAWAY

AliensGuard redefines Data Diode technology by combining high-speed performance, true hardware-enforced security, and cost efficiency — making it the ideal choice for modern critical infrastructure protection.

BUILT FOR A SECURE FUTURE

- Hardware-Based Zero Trust Architecture
- Designed for Critical Infrastructure Security
- Aligned with IEC 62443 and NIST Principles
- Future-Ready Performance & Scalability