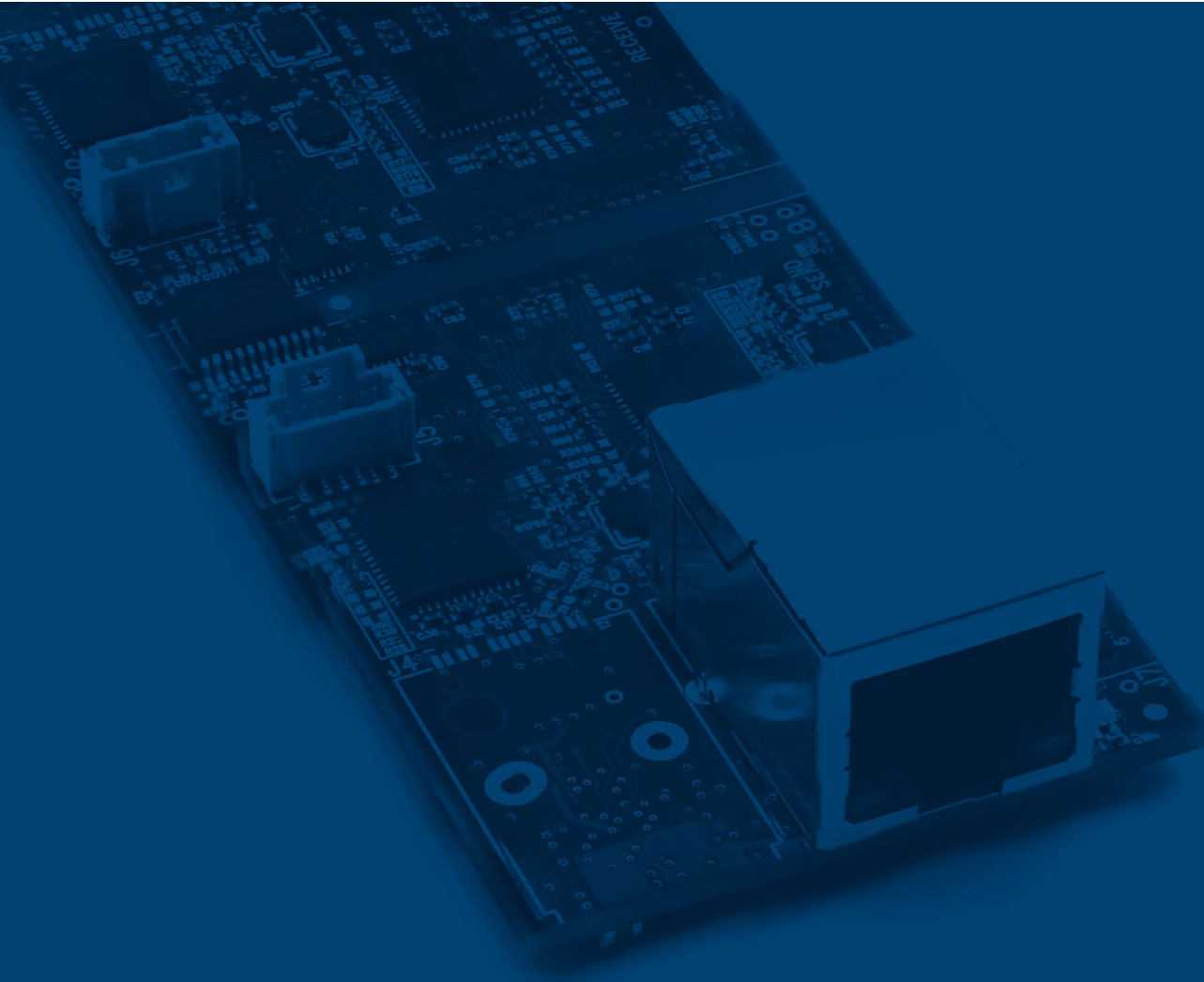# XDE Radium

Development Kit

Thinking About Building Cybersecurity into Your Equipment?

Operational Technology (OT) network owners are demanding improvements to eliminate two major cybersecurity gaps in their networked devices; weak device-level self-protection capabilities, particularly at the lower levels of the network, and the inability of low-level devices to securely deliver performance data to external networks, without exposing the OT network itself to outside threats. Embedded, device-level cybersecurity solutions are emerging as a viable approach for Original Equipment Manufacturers (OEMs) seeking to address OT network owners' demands. A make-vs-buy analysis is a key element of OEMs' plans to embed cybersecurity into their equipment. OEMs should ask themselves why they would design, develop, manufacture, and test homemade cybersecurity modules when they can leverage high-assurance, hardware-enforced, low-cost, embedded cybersecurity modules developed by a 20-year pioneer in the data diode and data filtering market. Owl has decomposed our technology, trusted by the U.S Government and the world's largest critical infrastructure networks, to provide OEMs with low cost, easy to deploy, fast-to-market, hardware-enforced cybersecurity modules that can be designed directly into industrial control devices for the highest level of security.

What is XDE Radium?

XDE Radium is a single-board, hardware-enforced cybersecurity module that can be embedded directly into industrial devices for device-level and network-level cybersecurity. This hardware module, featuring two FPGAs and either an optical or digital isolator, provides high-assurance, hardware-enforced, one-way flow enforcement and packet filtering for data crossing network or domain boundaries. XDE Radium's 1 Gbps ethernet connectors, combined with its low size, weight, and power, makes for a simple integration into programmable logic controllers, SCADA devices, safety systems, and network switches.

Owl is pushing the boundaries of hardware-based cybersecurity with an aggressive development roadmap that will continue Owl's hardware-focused technology leadership far into the future. Embedding an Owl hardware-enforced cybersecurity module in a host device enhances the host device's value while meeting industrial control network owners' evolving expectations for enhanced cybersecurity. For OEMs who are interested in testing XDE Radium in their lab, Owl has developed an XDE Radium Development Kit that you can request today.

About the Development Kit

The Owl XDE Radium Development Kit provides OEMs with the tools needed to successfully test XDE Radium in their lab. The XDE Radium Development Kit is intended for Engineers and Product Managers who are interested in evaluating an XDE Radium module in their representative network environment as a risk reduction tool. The low-cost development kit provides the product insight required to reduce integration challenges and speed time to market. Owl engineers and sales professionals will work alongside users to ensure development kit testing is a success from the start.

What's Included?

The XDE Radium Development Kit provides OEMs with the components needed to easily and successfully test XDE Radium in your network environment. The Development Kit includes:

- ✓ 1 XDE RADIUM MODULE
- ✓ A PLASTIC ENCLOSURE
- ✓ 2 RUGGED RJ45 CONNECTORS

- ✓ 2 6" RJ45 PATCH CABLES
- ✓ 1 INTERNATIONAL POWER SUPPLY
- ✓ 1 FIBER OPTIC CABLE
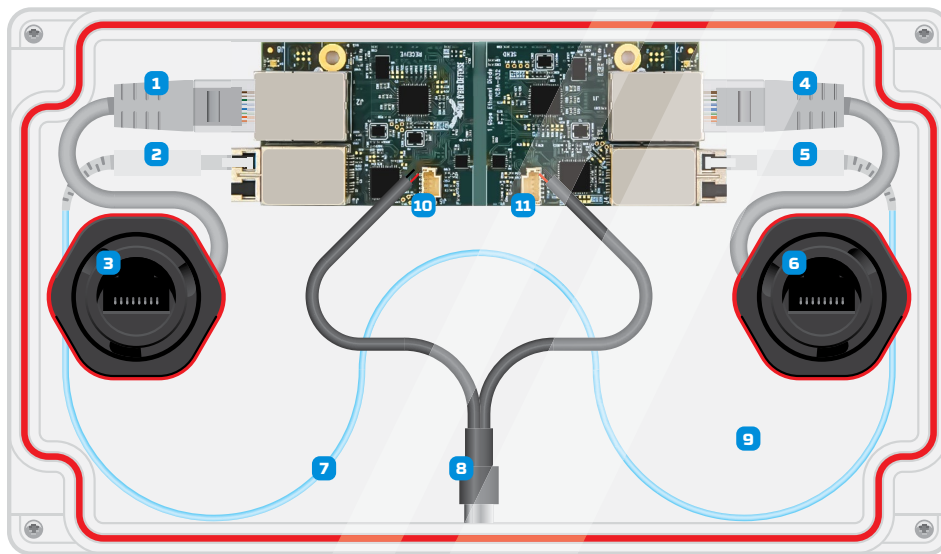
Digital isolator version also available

1. 'SOURCE SIDE' RJ45 INPUT PORT

2. 'SOURCE SIDE' SIMPLEX FIBER CONNECTOR

3. EXTERNAL 'SOURCE SIDE' RJ45 INPUT PORT

4. 'DESTINATION SIDE' RJ45 OUTPUT PORT

5. 'DESTINATION SIDE' SIMPLEX FIBER CONNECTOR

6. EXTERNAL 'DESTINATION SIDE' RJ45 OUTPUT PORT

7. SIMPLEX FIBER OPTIC CABLE

8. POWER CONNECTOR

9. CLEAR CASE PROTECTION

10. SOURCE SIDE SERIAL CONNECTOR

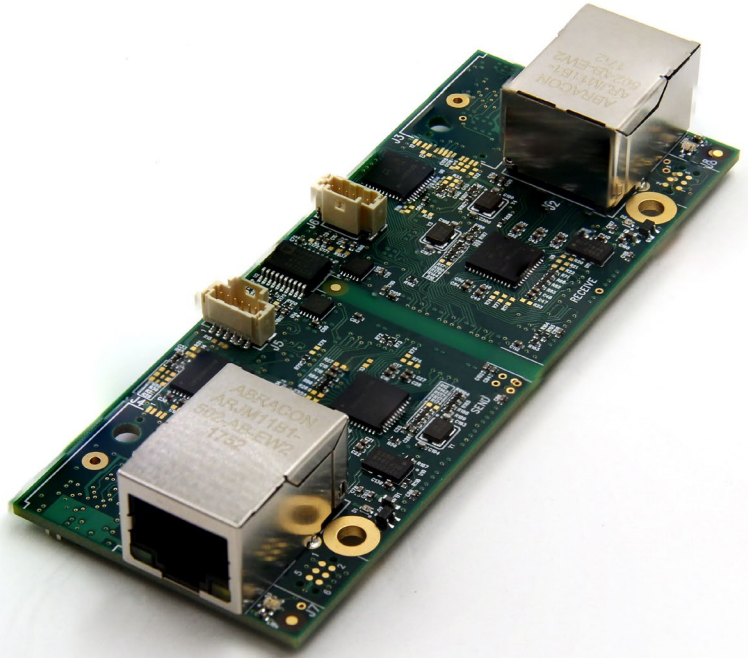11. DESTINATION SIDE SERIAL CONNECTOR

Support

Owl engineers and sales professionals will work alongside users to ensure development kit testing is a success from the start.

Get Started

Interested in an XDE Radium Development Kit to test in your network environment?

Request Now

Why Owl Cyber Defense?

EXPERTISE

- A leader in the network security industry for over 20 years

- U.S. owned and operated with a U.S. supply chain

- A leader in cross domain solutions

- Multi-market solutions – critical infrastructure, DoD, and intelligence agencies

- Trusted by the world's largest critical infrastructure and defense organizations

- 40+ patents | 20 patents pending

- 2,500+ deployments globally

SERVICES

- Build custom, hardware-based, application-specific filters that are tuned to enforce unique requirements for your protected asset

- Integration and testing of hardware security modules to provide validation in realistic networking environments

- Create customized versions of the modules or license the design for use in your own integrated layout

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

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