



V-Crypt

World's First Smart SFP Security for Edge Encryption & Intelligent Network Security



Edge Encryption



Traffic Visibility



Network Optimization



Product Category: Edge Security Hardware

Form Factor: supports 100 Mbps / 1 GbE SFP.

Brand: Vulnuris

Executive Summary

In the modern hyper-connected environment, organizations rely heavily on fiber links, leased lines, backhaul networks, and critical infrastructure connectivity. Traditional external encryption appliances are costly, complex, and slow to deploy. V-Crypt, a next-generation Smart SFP module, embeds high-grade encryption, network intelligence, and telemetry directly inside the transceiver — eliminating bulky hardware.

With V-Crypt, organizations experience:

- Zero-touch plug-and-play encryption at the port level
- Edge-based security with no redesign
- Real-time link intelligence & anomaly analytics

V-Crypt transforms a standard link into a self-defending, self-monitoring intelligent connection.



90%

**Reduction in
deployment time**

70%

**Lower cost compared
to other encryption
solutions**

150%

**Operational cost
savings**

0%

**Human
Intervention**

Key Product Features

Integrated L2/L3 Encryption

- AES-256 hardware encryption
- MACsec & IPsec support
- Inline packet protection
- Secure key vault inside module

Embedded Architecture

- High-performance FPGA architecture
- Early warning on link tampering.

Plug-and-Play Simplicity

- Installs like a normal SFP
- No appliances or cables
- No changes to switch/router
- Vendor-agnostic

Deep Visibility

- Real-time traffic encryption
- Latency/jitter free
- Network isolation



Technical Specifications

Platform Architecture

Deployment: Hardware SFP with cloud/on-prem management

Compatibility: Works with all major vendor equipment

Provisioning: Zero-touch onboard

Performance: 100 Mbps / 1 GbE line-rate encryption



Cryptographic Capabilities

- AES-256
- IPsec ESP

Metric	Traditional Security Appliance	V-Crypt Smart SFP
Deployment Time	Days–weeks	Minutes
Cost	High CAPEX	Low-cost SFP model
Port Coverage	Limited	Every port becomes secure
Encryption Start Point	Middle network	Right at the device port
Power Consumption	High	< 2.5W
Management	Complex	Unified simple UI

V-CRYPT Benefits

Your Organization's Network Never **Fails**

Cost Savings

Remove traditional Encryption solution.
Minimal power consumption.
Lower operational overhead.

Ultra-Fast Deployment

No network redesign.
Drop-in upgrade to existing hardware.

Vendor Neutral

Works with all major networking vendors (Cisco, Juniper, Mikrotik, etc.)

Scalable

Deploy thousands of secure endpoints with automated provisioning.

Business Impact

Massive cost reduction.
Universal edge security.
Zero network redesign.
Stronger compliance (PCI, HIPAA, Government).



Use Cases & Applications



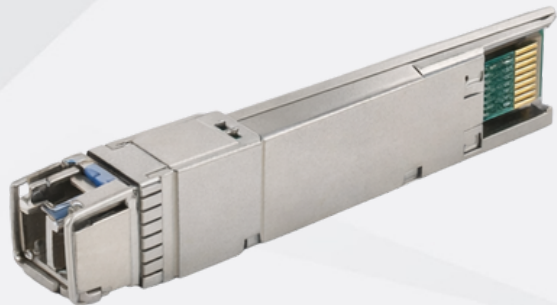
Enterprise Security for All

Enterprise: Protect large scale organization with cutting edge technology.

Financial Services: Real-time Threat detection and regulatory compliances.

Healthcare: Patient data protection and HIPAA compliance

Government: Critical infrastructure protection and national security via OnPrem deployment



Enterprise Edge Security

Replace heavy security appliances with a secure SFP in branch switches.

Telecom Secure Backhaul

Protect 4G/5G radio-to-core links at extremely low footprint.

Secure Last-Mile Fiber

Encrypt customer connections with zero CPE changes.

Critical Infrastructure

Utilities, government, healthcare — secure from port to core.

Implementation & Support

Deployment Options

On-Prem (Controller)
Vulnuris Central Console
Hybrid
Offline Mode Available for High Security Zones



Professional Services

Network assessment
Policy design
Key management guidance
Remote/Onsite support



Success Metrics

Deployment in under 1 hour
Encryption enabled immediately
ROI within 3–6 months
Zero downtime implementation



Competitive Advantages

Why Choose V-Crypt ?

Capability	V-Crypt	Traditional Encryption solution	Standard SFP
Encryption	✓ Built In	✗ External	✗ None
Traffic Flow Protection	✓ Deep	✗ Basic	✗ None
Power	✓ Low	✗ External	⚠ Limited
Central Console	✓ Cloud/On Prem	✗ None	✗ Not Available
Licensing	✓ Perpetual	✗ Subscription	✗ Single Tenant

Key Differentiators

Industry-first Smart SFP security module

Combines encryption + intelligence + telemetry in one unit

Requires no space, no power, no redesign

Vendor-neutral & plug-and-play

Eliminates need for external encryption boxes, power supplies, and rack space



Investment

Simple Pricing Model

- Per-Unit Cost
- Annual Support & Updates
- Optional Cloud Console Licensing
- Volume Discounts Available

OnPrem Only.

Included Services

- FOTA updates
- Optical monitoring
- Priority support
- Secure OTA key rotation

Contact our sales team for detailed pricing information and custom packages.

Getting Started

Next Steps

Schedule a Demo: See **Vulnuris V-Crypt** in action with a personalized demonstration.

Implementation Planning: Work with our experts to design your deployment.

Go Live: Begin protecting your organization in days, not months

Contact Information

Sales:

connect@vulnuris.com

Support:

Available 24/7 for customers.

Website:

www.vulnuris.com

Our Presence:

India : Pune, MH India

UAE : A1, IFZA, Dubai, UAE

Kuwait : Qibla, Kuwait City

USA : Virginia, USA

Our Leadership



Mr. Mandar Waghmare

Director - Global Business

A visionary leader with 12+ years of cybersecurity expertise, driving strategic growth initiatives, building industry partnerships, and expanding market reach to become a globally trusted security leader.

Ms. Aishwarya Gore

Director - Technology

A dynamic leader with 10+ years of cybersecurity experience, fostering innovation and enhancement of security services and product portfolios to address the evolving cyber threats.



Who is Vulnuris ?

With a team of highly skilled and experienced professionals, Vulnuris delivers a comprehensive portfolio of cybersecurity services across multiple sectors including IT/ITES, Manufacturing, Healthcare, Fintech, Banking **since 2015**.

We believe that every organization—regardless of size, complexity, or industry—deserves robust, scalable, and future-ready protection against evolving cyber threats. Our approach is proactive and maturity-driven, working closely with clients to strengthen their security posture and help them systematically scale the security ladder.

As part of our **continued innovation**, Vulnuris has introduced its **Agentic AI-Driven SOC** (Security Operations Center)—a next-generation, autonomous security monitoring framework.

This allows organizations to achieve higher resilience and significantly lower detection and response times, ensuring stronger protection with reduced operational overhead.



vulnuris

FIND › FIX › FORTIFY



You Name it V Secure it !

You Plug It. V-Crypt Secures It.

SERVICES | PRODUCTS | TALENT | SOC