

IRON EDGE GATEWAY (IEG) ROUTER

Overview

Entropy's Iron Edge Gateway (IEG) is a quantum-ready router that isolates and hides everything connected behind it. The IEG provides untraceable digital super-highways through Entropy's global software-defined private network (SDPN). Unique to the IEG's design, it isolates and obscures digital signatures, masking them in the noise of the Internet's HTTPS (port 443) traffic. The IEG's trusted supply chain and firmware are cyber-hardened with fortified default configurations. The IEG uses post-quantum cryptography (PQC) protected tunnels that conceal the public IP, making your online presence disappear. Optionally managed through a robust attribution mechanism, the Iron Edge Gateway boasts leading-grade security, independently tested and verified. Entropy meets you where you are, simplifying complexity and delivering the highest security and performance possible.

Key Features

Seamless Connectivity

- The Iron Edge Gateway (IEG) seamlessly connects protected broadband Internet to local networks, acting as a DHCP server for internal devices. We meet you where you're at with what you have.
- Our IEG is also configured with the trusted pfSense firewall for seamless integration and enhanced security.

Entropy's Encrypted Network (EEN)

- The IEG Router authenticates to the Entropy Encrypted Network (EEN), an interconnected labyrinth of software-defined private pathways designed to protect your online activity. The EEN scales infinitely and works seamlessly with public, private, and commercial infrastructure to include data centers, cellular, space, and private Content Delivery Networks (CDNs).

Post-Quantum Cryptography (PQC)

- Entropy implements the highest grade protocols at the National Institute of Standards and Technology (NIST) PQC Security Level 5. The IEG and Entropy Encrypted Network (EEN) use the FIPS 203 Post-Quantum Cryptography protocol suite Module-Lattice-Based Key-Encapsulation Mechanism (ML-KEM) 1024.

Dynamic Traffic Handling

- The IEG creates post-quantum encrypted tunnels for your internet traffic, making it the leading grade untraceable Internet access for all your connectivity needs. With customizable connection points and one-way routing, EEN ensures that your location and digital destination remain separate, enhancing privacy. In randomization mode, it obscures the public IP exit to the Internet by routing traffic through a hidden and distributed EEN, effectively eliminating both traceability and your attackable digital signature on both sides.

Benefits

- **Versatile Network Integration:** Seamless integration into any existing network infrastructure for flexible ease of use.
- **Cutting-Edge Security:** Enjoy digital freedom with a hidden IP address that makes you disappear from the Internet.
- **Scalability:** Whether securing a large enterprise or a small office, the IEG Router scales effortlessly to meet your needs—supporting up to 10 users with a Professional license and 100 users under an Enterprise license. Configurations continue to scale up to meet your needs.



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