Optical Encryption from Crown Castle Fiber uses revolutionary technology to offer Federal Information Processing Standards (FIPS-certified) encryption of in-flight data from end-point to end-point.

Our easy to implement solution offers maximum protection and throughput and optimizes latency by encrypting all of your in-flight data at the optical level—regardless of where it's generated. Whether you have a 10Gbps or 100Gbps connection, you’ll maintain total control over your security parameters and keys. And since it can easily be added to one of our existing solutions, you won’t need to purchase, deploy, or manage costly new equipment.

Key Benefits

**Security**
Maximize your security with industry-leading technology that encrypts in-flight data from end-point to end-point at Layer 1.

**Flexibility**
Our solution is protocol agnostic, allowing you to avoid cumbersome configurations for multiple protocols. Optical Encryption can be ordered as a new service or as an upgrade to existing Wavelengths, both without standalone encryption boxes—keeping both capital and operating expenses low.

**Efficiency**
Encryption management runs out-of-band so no overhead is added. You also receive full line rate performance at all frame sizes and protocols with minimal latency impact.

**Control**
You can upgrade at will to keep up with technology or align with changing requirements. You maintain your own security protocols and keys, and a dedicated management tool gives you complete control over all your security parameters.

For more information, please contact 1-855-91-FIBER or visit Fiber.CrownCastle.com
Crown Castle owns, operates and leases more than 40,000 cell towers and approximately 75,000 route miles of fiber supporting small cells and fiber solutions across every major US market. This nationwide portfolio of communications infrastructure connects cities and communities to essential data, technology, and wireless service—bringing information, ideas, and innovations to the people and businesses that need them.