



CyberRidge Makes Your data in Transit *Record-Proof*

When data over public infrastructure cannot be recorded, it cannot be hacked now or later.

The way to absolutely protect critical data from any computer attack power – including quantum computers – is to eliminate the ABILITY to record data - thereby making the raw data disappear for unauthorized users.

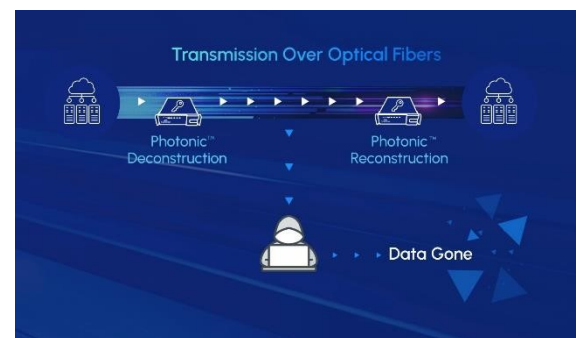
HOW
CYBERRIDGE
WORKS

Making Data DISAPPEAR For UNAUTHORIZED Users And APPEAR Only For AUTHORIZED Users

Proven unhackable by physics, CyberRidge's Photonic Encryption™ transforms critical data over high-capacity public infrastructure into optical noise that no computer power can process and therefore record.

No raw data = nothing to hack.

CyberRidge pioneering photonic layer encryption makes it impossible to intercept and record data in transit. **Photonic deconstruction™** transforms data into undecipherable optical noise. **Photonic reconstruction™** transforms optical noise into its original digital data form. **Without reconstruction at the instant the light appears at the receiver, transmitted data remains undecipherable optical noise forever, with no raw data to store now and decipher now or later.**



Data can't be recorded or hacked



Optically stealth – can't be seen



Full compatibility with
existing standards

Known quantum encryption solutions (QKD, PQC) are not resistant to data recording. It is this fundamentally different approach that is changing the rules at the core of the quantum threat. In addition, unlike these traditional methods, CyberRidge technology

UNDER THE HOOD | Working Seamlessly Within Your Infrastructure

Networking Schemes

- Point-to-point topology
- Ring topology
- Operation along-side EDFA amplifiers over the link
- Various support for alien-wavelengths over separate spectral bands

does not require new infrastructure and can seamlessly integrate with existing optical channels, any external key management system and any future PQC algorithms.

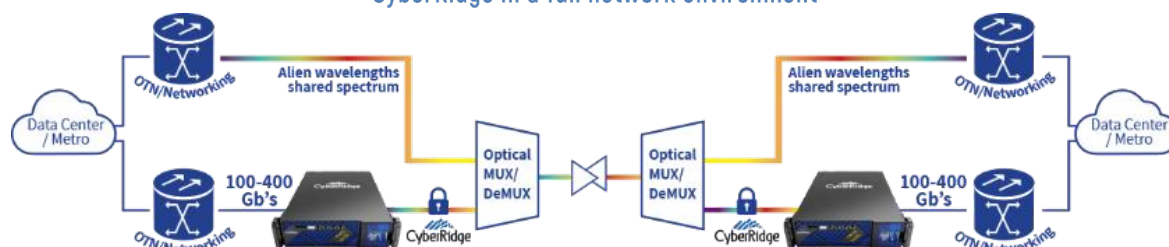
Point-to-Point Links



Ring Topology



CyberRidge in a full network environment



BASED ON BREAKTHROUGH SCIENTIFIC DISCOVERY



The CyberRidge paradigm shift was led by Prof. Dan Sadot (5 startups, PhD in Electrical & Computer Engineering, Stanford Post Doctorate) and developed by an elite team from IDF intelligence (Talpiot, 81) & PhD holders with decades of pioneering electro-optic innovation. VC backed and field-tested, CyberRidge is boldly changing the cybersecurity game rules with physics, by removing data from the game.