## **Librem PQC Encryptor 10**



## A Data in Transit (DIT) Post Quantum Cryptography (PQC) Encryptor at 10Gbps Line Rate Speeds

- The Librem PQC Encryptor 10 takes a data link in, encrypts via Post Quantum Cryptography (PQC) toward the target Librem PQC Encryptor 10, and sends that PQC encrypted data out.
- PQC encryption can only be decrypted by the destination device, not even a quantum computer can compromise nor decrypt the data.
- The Librem PQC Encryptor 10 utilizes the latest (published August 2024) NIST Standard FIPS 203 for post-quantum cryptography. ML-KEM key exchange and AES-256 encryption protect the entire data stream.
- Offering Line Rate Speeds with PQC, the Ciena 3926 XL FRU offers 10Gbps line rate with full PQC DIT.

- Purism's implementation of PQC offers a unique approach whereby the secret key never leaves the Librem PQC Encryptor 10. Ensuring that keys are not compromised by requiring to share the secret—as is the case with all symmetric key cryptography.
- Purism's unique implementation allows for an administrator to setup devices, manage devices, sign certificates, and revoke device keys, without ever touching the secret key generated on Librem PQC Encryptor 10.
- Utilizing an existing Ciena 3926 XL FRU, and adding Purism's PQC solution with the added benefit that the secret keys generated on device never leaves.

## Two Librem PQC Encryptor 10 devices offer drop-in PQC into an existing network, one at each end.

A **Librem PQC Admin Server** manages all Encryptors on the visible network.

