

# LightSpeed™ K-Core

## Free-Space Optical Transceiver



### Silent. Secure. Optical - Without the Wires

#### Introducing the K-Core (Kilobits-core)

Compact, High- and Low-Speed Free-Space Optical (FSO) Transceivers designed for integration.

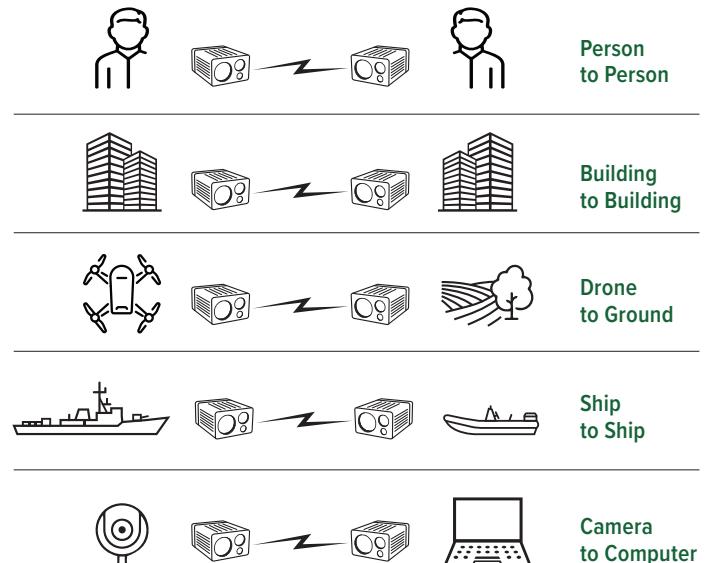
Engineered for mission-critical performance, the K-Core offers **covert, wireless, high-bandwidth optical communications** at distances up to 500 meters. Designed for seamless integration into defense platforms, these transceivers enable secure, interference-free links—without reliance on congested or compromised RF spectrums.

#### Key Features:

- 500 m Tactical LOS Range:** Reliable performance in rural, industrial, or urban environments. Ideal for asset to FOB, base-to-vehicle, UAV, or deployed sensor backhauls.
- Operational Flexibility:** Works in RF-denied, GPS-compromised, and spectrum-contested environments.
- Hard-to-Intercept Optical Link:** Inherent LPI/LPD—No RF emissions, virtually immune to jamming.
- Integration-Ready:** Compact form factor, modular interface, and plug-and-play interface means they're up instantly.
- Low Power, High Performance:** Optimized for the absolute minimum power consumption possible; embedded and mobile platforms.

Voice, Data	K-Core	Voice, Data	K-Core
Operating Range	>500 m	Power Consumption	2.5 W
Speed	up to 1024 Kbps	Weight	210 g
Frequency	NIR/Vis/SWIR	Dimensions	2.1 x 2.25 x 1.4 in
Data Interface	RS-232	Operating Temp.	-20° to 50° C

### Communication Links



M100-, M-, and K-cores



Integrated back panel interface



DL1 - Optical Remote Control

