

# Pushing the Limits and Optimizing Uptime

Case Study: Going the distance in a stressed network



## Summary

### Customer

- International high capacity transport provider

### Challenge

- A stressed network that was burning through optics
- Waning OEM bias
- Availability of quality optics

### Solution

- A head-to-head test between the incumbent OEM and Integra Optics

### Result

- Integra's optics worked flawlessly at the limit, and then some
- Achieved 3 to 4 dBs more sensitivity than the OEM
- Replaced critical optics with Integra's optics

### Equipment

- 80KM XFP
- 10KM SFP+

### Used

## Optics and Athletes, Pushing the Limits

Operating under a stressed network while trying to optimize uptime is no small task. One of the keys to success is having optics that can go the distance and perform at, and beyond the limit. Think of the optic as a competitive athlete; they push to the absolute limit everyday, and when it counts, they defy the odds and perform above 100 percent capacity. To most, this seems like an impossible feat, but to the one percent of the world's best athletes, thriving under pressure is what they do.

When a customer came to us needing optics that would not only perform well, but surpass industry standards in a stressed network, we knew it could be done. Through an exhaustive test environment, Integra was able to prove that its optics were made to go the distance and excel under pressure.

Technical drawing of the 1000 Series Slimline pen, showing front, side, and top views with dimensions in millimeters.

- Front View (Left):** Shows the pen's profile with a textured grip section and a smooth barrel. Dimensions include a total length of 140 mm and a grip section length of 77.1 mm.
- Side View (Middle):** Shows the pen's side profile. Dimensions include a total length of 140 mm, a grip section length of 77.1 mm, and a barrel diameter of 12.4 mm.
- Top View (Right):** Shows the pen's top profile. Dimensions include a total length of 140 mm, a grip section length of 77.1 mm, and a barrel diameter of 12.4 mm.

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"We were underutilizing the capacity of our links and this was taking a toll on our operations team. With Integra's optics, we have seen improved and consistent performance, and everyone's able to get a little more sleep at night."

Manager, Engineering

# Excelling Under Pressure

Integra starts with only the best raw materials, codes, and triple-tests every optic in-house to ensure quality and predictable performance, similar to athletes who train their bodies to endure stress and consistently perform above capacity. Integra's optics thrive under pressure when it counts.

