

Optical Wavelengths

Ultrafast, low latency connectivity up to 400Gbps

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Connect core networks for the future

Does your business need ultra-high bandwidth, low latency connectivity for mission-critical networks?

Optical Wavelengths is resilient, high capacity connectivity you can scale without investing in costly infrastructure – ideal for core networks and data-intensive applications, including:

- Connecting edge networks for AI
- Wholesale network expansion
- Data centre interconnects (DCI)
- High-frequency trading and financial services
- Cloud computing, data virtualisation and replication
- Multimedia content delivery and IPTV

Why Optical Wavelengths?

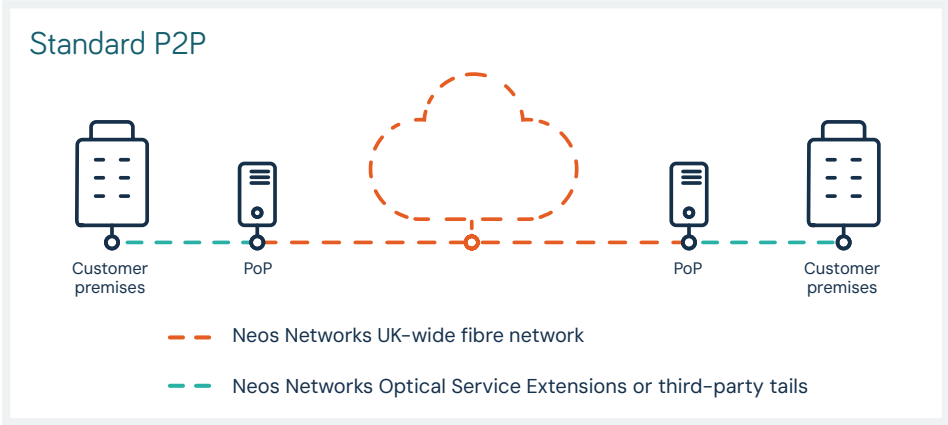
With Optical Wavelengths, you get cost-effective, future-ready connectivity you trust, tailored to your business:

High capacity, low latency	UK-wide reach	Flexibility and scalability
• Ultra-high data transfer rate using DWDM/ROADM technology • Optimised routes with the shortest hops for low or ultra-low latency	• Over 600 points of presence (PoPs) and 90 data centres nationwide • We specialise in innovative solutions for hard-to-reach locations	• Scale up as you grow from 10Gbps to 400Gbps • Custom-designed diverse routing to meet your specific business needs
Reliability and security	Competitive pricing, fast rollout	Industry-leading service
• Network built for Critical National Infrastructure with up to 99.95% uptime SLA • Certified Cyber Essentials Plus, ISO27001, ISO9001 and Crown Commercial Service supplier	• Quote and order online in minutes with LIVEQUOTE • Get 100Gbps connectivity in up to 10 business days in select data centres and exchanges nationwide	• 24/7 network monitoring and customer service from our UK-based NOC • An average +75 NPS customer satisfaction score, well above the industry standard



Which Optical Wavelengths are right for you?

If you need a dedicated high capacity, low latency link, our standard Point-to-Point (P2P) optical service will work for you.



For more redundancy and resilience, we have a range of diverse routing and resilience options we can tailor to your business.

Spectrum for greater control

If you need control similar to Dark Fibre but with lower overheads, Spectrum is a great choice. By leveraging our nationwide infrastructure with existing owned transponders, Spectrum enables you to deploy multi-terabit capacity without deploying a full network build over Dark Fibre.

This gives you the flexibility to quickly respond to changing business demands with full control to light optical waves as required.

Optical Wavelengths features and options

No matter what your connectivity challenges are, choose from a range of on-net and off-net options to connect your business anywhere across the UK:

Our optical services	- Standard Point-to-Point (connection between two locations) - Diverse Point-to-Point tailed for your business needs
Speeds	10Gbps, 100Gbps, 400Gbps
Access methods	- Neos Networks Optical Service Extensions - Openreach OSA (including OSEA) and EAD tails with RO2 options for maximum resilience - Non-Openreach 3rd-party tails such as BT Wholesale and Virgin Media
Protocols	10Gb Ethernet LAN PHY (10.3125Gbit/s) – 1310/SM/LC 100Gb Ethernet (103.125Gbit/s) or 100GBASE-LR4 – 1310/SM/LC 400Gb Ethernet (412.5Gbit/s) – 400G-FR/SM/LC or 400G-LR4 – 1310/SM/LC
Availability and SLAs	- Up to 99.95% as availability target 5-hour equipment break fix and 16-hour circuit break fix 24/7/365 service and support



Customised for your business

Working directly with your IT team, we optimise capacity, latency, and diversity to fit your business needs and budget, including:



Bespoke routing: Customised networks for maximum resilience and efficiency.



Low latency: Specifically designed routes to enable low latency, time-critical applications.



Fast provisioning: Rapid activation from select data centres and exchanges across the UK.

Whatever you choose, your dedicated account manager will support you at every step, from initial design to delivery and long-term growth.

Interested in Optical Wavelengths?

Get a quote in a few clicks with LIVEQUOTE, our online pricing and ordering tool.

[GET A QUOTE](#)

Want to know more?

Get in touch today to discuss how Optical Wavelengths could boost your business.

[SPEAK TO AN EXPERT](#)

What our customers say

“Our partners need high-speed, full fibre with both local access and nationwide fibre coverage. Working with Neos Networks across the UK helps us to deliver on this connectivity ambition.”

David Tomalin, Group Chief
Technology Officer at CityFibre



You might also like



Dark Fibre

Extensive Dark Fibre network with complete flexibility and near-limitless capacity

[Learn more →](#)



Business Ethernet

High capacity, low latency business Ethernet you can scale from 10Mbps to 100Gbps

[Learn more →](#)



Dedicated Internet Access

Dedicated Internet Access (DIA) and IP Transit solutions designed for your needs

[Learn more →](#)

About us

Neos Networks has the UK's largest business-dedicated network. With over 600 points of presence and 90 data centres nationwide, Neos provides high capacity critical connectivity for businesses, from telecoms and energy to banking and emergency services.

Agile and customer-focused with almost limitless scale, Neos enables emerging technologies like AI, 5G and IoT, making connectivity work for Britain.