

## THE INFINERA LOW-LATENCY OPTICAL NETWORKING SOLUTION

## TRADING AT THE SPEED OF LIGHT

For financial firms that employ high frequency trading strategies and the high performance networks that serve them, low latency means faster market data and faster order executions. Infinera understands that you need to reduce latency across your networks in order to maintain a competitive edge in trading.

And Infinera can help you win the liquidity race—our low-latency optical networking solution provides the fastest transmission across any optical network.

### Infinera's Low-Latency Solution

When the speed and delivery of market information has a profound impact on trading strategies, investing in technologies which can eliminate milliseconds—even microseconds—of latency can yield high returns.

That's why we've optimized our low-latency solution for financial institutions. With Infinera's performance-tuned ATN optical platform and ILS optical line system, our low-latency solution can eliminate more than 80% of the equipment drag on long-haul dark fiber networks, when compared to conventional approaches.

And, as one of the benefits of deploying your own low-latency optical network, you can be in control of your own destiny, and adapt the network to meet your evolving trading strategies. Infinera's low-latency solution gives you the power to create and re-provision low-latency circuits with very short turn-around time, providing a new level of flexibility to meet the evolving demands of fast-changing conditions.

### Key Benefits

Infinera's low-latency optical networking solution offers many key benefits, including:

- **Ultra low-latency 1G and 10G circuits**—With Infinera's toolkit of low-latency technologies—including streamlined digital electronics, fast native waves, latency-optimized amplifiers, and latency-saving

dispersion compensation technology—you can design and deploy high performance optical WAN, MAN, and integrated WAN/MAN networks that support the fastest, ultra low-latency 1G and 10G circuits. And, with our years of network design experience, we can tune your optical links to squeeze out microseconds in order to ensure you have the fastest path from points A to Z.

- **Circuits on demand**—Customize your traffic. Rapid circuit adds are available as part of your own Infinera ultra low-latency network, thanks to our managed network services. We guarantee your new low-latency circuit is up and running within 24 hours of notification.



### Infinera's Low-Latency Technologies

- Fiber-Bragg Grating technology for minimizing light propagation latency
- Custom low-latency electronics and minimal encapsulation for minimizing electronic processing latency
- Configurable Forward Error Correction (FEC) coding for streamlining or eliminating FEC latency
- Latency-optimized regeneration and optical amplification



ATN Latency-Optimized DWDM Solution

- **High reliability, minimal downtime**—When time really is money, the uptime of low-latency optical services is critical. Infinera has a track record of deployments with ultra high reliability in long-haul, metro and enterprise applications. We adhere to the most stringent and highest quality metrics in the industry, with full ISO 9001 and TL 9000 certification. Plus, Infinera's high availability Digital Network Administrator (DNA) management software enables a clear end-to-end management view of the network for rapid fault isolation and time-to-resolution.
- **End-to-end network solution**—Infinera's suite of low-latency services spans both WAN and MANs. We have years of network design expertise, so we know how to customize your network solution across both long-haul and metro areas for the lowest end-to-end optical latency.
- **Around-the-clock customer support**—The Infinera Customer Service and Technical Support teams are available 24x7x365. Our full suite of professional and managed network service offerings include low-latency design and optimization, full installation and deployment, around-the-clock network monitoring, onsite sparing, and trained technicians in the field. Our highly qualified services and support teams are here to assure your network is operating flawlessly.

## Experience on Your Side

Infinera changed the world of optical telecommunications when we pioneered Intelligent Transport Networking, a new approach to the optical network enabled by our breakthrough photonic integration circuit.

In 2004, we altered the landscape of optical networking when we introduced the Infinera DTN, which uniquely combines DWDM scalability, digital bandwidth management and protection, and GMPLS-based networking intelligence. The Infinera ATN extends Infinera's optical networking solution into the metro environment with a space- and power-optimized wavelength-granular add/drop system. Now, we've streamlined and optimized the Infinera ATN to provide you the lowest latency solution possible.

Infinera has built a reputation of speed and reliability. Our networks lead the market in rapid deployment, speed of transmission, fast provisioning, and ease of operations. We are the #1 provider in the North American long-haul optical networking market, and second worldwide.<sup>1</sup> Leading telecommunications companies, Internet service providers, and financial institutions trust Infinera to power their networks.

## Accelerate Your Network with Infinera, the Low-Latency Experts

Infinera is here to help you design, deploy and optimize your low-latency optical network. As a customer-focused organization, we are responsive and agile to your needs. So when speed matters, think Infinera.

Contact us today to find out how we can help accelerate your network. [speedmatters@infinera.com](mailto:speedmatters@infinera.com)

## About Infinera

Infinera provides Intelligent Transport Networking systems to network operators worldwide. Infinera's systems are unique in their use of a breakthrough semiconductor technology: the photonic integrated circuit (PIC). Infinera's systems and PIC technology are designed to provide customers with simpler and more flexible engineering and operations, faster time-to-service, lower latency, and the ability to rapidly deliver differentiated services without reengineering their optical infrastructure.

Global Headquarters  
140 Caspian Court  
Sunnyvale, CA 94089  
USA  
Tel: 1 408 572 5200  
Fax: 1 408 572 5454  
[www.infinera.com](http://www.infinera.com)

US Sales Contacts  
[sales-am@infinera.com](mailto:sales-am@infinera.com)

Asia and Pacific Rim  
Infinera Asia Limited  
8th floor  
Samsung Hub  
3 Church Street  
Singapore 049483  
Tel: +65 6408 3320  
[sales-apac@infinera.com](mailto:sales-apac@infinera.com)

Europe, Middle East,  
Africa  
City Point  
1 Ropemaker Street London,  
EC2Y 9HT  
UK  
Tel: 44 207 153 1086  
[sales-emea@infinera.com](mailto:sales-emea@infinera.com)

Customer Service and  
Technical Support  
North America  
Tel: 877 INF 5288  
Outside North America  
Tel: 1 408 572 5288  
[techsupport@infinera.com](mailto:techsupport@infinera.com)

