

# End-to-end performance guarantee

Widely available in continental United States

Symmetrical upload & download speeds

U.S. Based customer service & tech support 24/7/365

## Norstar Ethernet

### FEATURES & BENEFITS:

Save your business money by providing more bandwidth at a lower cost per megabit, an excellent alternative to Frame Relay, Private Line and Data T1 solutions. Simplify network management because Ethernet is easy to install, upgrade, and maintain. Scalable, providing incremental bandwidth options so organizations can purchase only the level of service they need. Convenient, offering organizations the benefit of working with just one company to meet all of their data, voice and video needs with one point of contact and one bill. Easy to upgrade, enterprises can upgrade their Business Class Ethernet service with just one phone call. Easy to implement and manage. Reliable performance backed by robust SLAs (strong Service Level Agreements (SLAs)). Round-the-clock, proactive end-to-end network monitoring ensures continuous network accessibility and rely on our 24x7 monitoring and customer care support.

### BURSTABLE OR ON-DEMAND INTERNET

For businesses that don't have a consistent need for high download and upload speeds, burstable is a lower cost alternative that requires a company only pay for the infrequent occasions that a high download or upload speed is necessary.

- High Speed Connectivity & Flexible bandwidth options.
- Savings – Business Ethernet can be less expensive than T1 lines, and with no hassles.

- Ideal for businesses that use bandwidth-intensive applications or transfer large data, image or video files.
- Supports remote workers and VPN.
- Flexible bandwidth options ranging from 2 Mbps up to 100 Gbps.
- Easier to upgrade service without changing hardware.
- Fully scalable to give your business what you need without paying for what you don't.
- Multiple topologies can link together LANs from different metro, intercity, and international locations.
- Reliable SLAs & Exceptional Quality Of Service (QoS).
- Help reduce your operating costs by standardizing your network on a single protocol and eliminating unnecessary equipment.
- Our robust service level agreement guarantees uptimes and response times.
- Consolidated Savings.
- The connections are dedicated to your organization's use. Your data does not traverse the public Internet.
- Standard-based with options like QoS and route protection to meet your specific needs.
- Unparalleled support and maximum up-time that ensures you can do business when you need to.
- Fully managed equipment.
- Fault management and performance reporting.
- 24x7 domestic Network Operations Center (NOC) staffed by engineers providing round the clock proactive fault management and outstanding customer service.
- Redundant, diverse connections for business continuity.
- Voice, Data and Video applications.
- Point-to-Point or multipoint services.
- Dedicated or virtual connections.
- Flexible Capacity.
- Various access methods.
- Low Latency and Low Cost.
- Customized billing options.
- Trouble-free installation.



**Whether you are looking to seamlessly support a large number of users, connect several offices, or provide quickly and reliably access to cloud services and the Internet.**

**Our performance SLA is our promise**



**Guaranteed Network Availability:**

**Vendor redundant “network of networks” for 99.999% uptime guarantee available**

**AFFORDABILITY**

Cost effective, high quality, high-bandwidth internet connectivity.

**SCALABILITY**

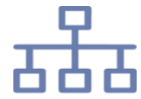
Speeds from 5 Mbps to 100 Gbps depending on location.

**AVAILABILITY**

Nationwide (US) plus Canada and international.

**RELIABILITY**

Providing top tier reliability via the largest carrier and operator networks.



## BUSINESS ETHERNET & SERVICES



### Ethernet DIA

- Reliable service backed by SLAs
- Upload speeds as fast as download speeds
- Secure connection

- Rapidly turning up services to new locations
- Enabling quick data access in remote locations
- 99.9% service availability guarantee

Supplying burstable bandwidth on-demand  
24x7x365 network management

Ethernet Access (E-Access) and Business Ethernet services are available as either Ethernet Private Lines (EPLs) or Ethernet Virtual Private Lines (EVPLs). Choose the right Ethernet service for your business location and destination from our versatile Ethernet services portfolio.



**Ethernet Private Line (EPL)** is a dedicated, point-to-point Ethernet connection service that is cost-effective and a streamlined solution for connecting two locations. EPL is a high-capacity, cost-effective solution for businesses requiring direct connections. Data travels securely within a Layer 2 dedicated point-to-point connection. This is an ideal replacement service for traditional TDM point to point service and provides symmetrical, full-duplex, guaranteed bandwidth. We guarantee performance and bandwidth so all of your sites can work together and exchange information effectively and securely. High speed, dedicated point-to-point connectivity is useful for metro applications including online backup, storage area networking and high capacity data center connectivity. EPL offers three Classes of Service (CoS). This service is ideally suited to support the demands of bandwidth intensive applications by providing reliable, scalable, point-to-point Ethernet connectivity. Dedicated point-to-point Ethernet Private Line connections from 10 Mbps to 10 Gbps provides the needed connection required by bandwidth intensive applications.

**Ethernet Virtual Private Line (EVPL)** EVPL from Norstar helps improve application performance across your network with a private, point-to-multipoint network design between multiple locations, even to a third party data center or cloud platform.

**Ethernet Virtual Private Line (EVPL)** service offers dedicated point-to-multipoint connectivity which allows organizations to easily and efficiently connect multiple locations. EVPL is a high-capacity multi-point solution that offers high capacity multi-point connectivity that's cost effective, reliable and flexible. Norstar's Virtual Private LAN Service (EVPL) provides any-to-any connectivity, extending your network across multiple locations. Data travels securely within a Layer 2 dedicated connection. This is an ideal replacement service for traditional TDM private lines, ATM Layer 2 VPNs, Frame Relay and IP VPNs. Ethernet VPN is a simple and cost-effective way to build an 'extended LAN' and is well suited for multi-site Enterprises with a distributed organizational structure.



The Ethernet VPN service is a Layer 2 E-LAN service providing customers wide area connectivity in an any-to-any logical topology.

**EVPL** can be used over a carrier Ethernet network to seamlessly and cost-effectively provide any-to-any connectivity with CoS and QoS. VPLS provides a high-performance WAN connection that is configured like a Local Area Network (LAN) or Campus Area Network (CAN).

EVPL is easy to manage, extending the simplicity of the Ethernet LAN across the WAN. Norstar's EVPL network enables you to maintain full routing control of traffic, with no sharing of your routing table or IP addressing. The service allows for transmission of IP traffic, as well as non-IP traffic, with no encapsulation or conversion required.

## Ethernet Virtual Private Line (EVPL) Features:

Dedicated Connectivity      Secure Connection      Scalable Capacity      Performance Reporting  
24/7 Priority Support      Security Monitoring      99.9% Service Availability Guarantee\*  
Industry Leading Service Level Agreement (SLA)      Available throughout US - Canada and worldwide

## EVPL Benefits:

- Cost Effective: More effective means to manage network costs with less overbuilds
- Increase reliability and isolate your network from public internet in order to support real-time data
- VLAN Tagging: Allows multiple EVPL circuits into a single handoff
- Scalable Bandwidth: Granular bandwidth options ranging from 10 Mbps – 10 Gbps
- Use less power: Multiservice access (ability to purchase multiple services via one interface) decreases equipment/power requirements and increases cost efficiencies
- Extensive geographical coverage
- Uptime: Robust SLAs provide network availability guarantees
- Point-to-point and point-to-multipoint configurations available
- Ability to choose data rate per circuit in 1Mb increments
- Maximum security and privacy with customer-controlled IP environment and routing
- Global Coverage

## More EVPL Benefits:

- Available throughout US & Canada and worldwide
- Bandwidth is flexible and guaranteed
- More network control, improving operational efficiency
- Flexible configurations, point-to-point, point-to-multipoint or multipoint-to-multipoint
- 99.9% service availability guarantee\*
- Fast, flexible & reliable network, low latencies between regions. Support delay-sensitive applications such as voice and video

## ETHERNET LOCAL AREA NETWORK (ELAN)

This solution enables multipoint-to-multipoint connectivity for businesses that need to connect all of their locations on a single network. Any network solution requiring any site to any site communication capability is a good application of this type of service. This configuration provides the capabilities of a private line service with the performance and resiliency of IP VPN, providing a technologically advanced business solution for network connectivity needs.



## ETHERNET OVER COPPER (EOC)

Ethernet over Copper (EOC) service offers businesses in the United States a symmetric broadband connection to the Internet, and/or to a carrier backbone network. EOC is a newer technology that delivers high-speed voice and internet data service over existing copper wires. Can deliver speeds from 1.5 Mbps up to 1 Gbps.

EOC is affordable, is reliable, maintains high quality of service, and can be installed quickly and turned up easily. EOC is an excellent alternative to competing fiber products. EOC Ethernet utilizes your existing infrastructure and reliable copper loop bonding technology to ensure rapid deployment and a seamless connection. Ethernet over Copper is a business grade data connection that provides more business-class bandwidth than T1 or Bonded T1 service at a much lower cost. It is about half the cost of T1 circuits for the same bandwidth with a business SLA of 99.999% for mission critical applications. EOC offers up to 1 Gbps of symmetric speed. Ethernet over copper is reliable and affordable while maintaining a high quality of service and can be installed in a very short period of time. Norstar is a top provider of Ethernet over Copper service in the US with services available nationwide. Built with the speed to help you run your business at a price that won't break your budget.



## CARRIER ETHERNET ACCESS

Carrier access Allows service providers to leverage fiber-based network to extend their reach to seamlessly serve customers outside of their service territory. Carrier Ethernet Access leverages greatest state of interconnectedness to fiber providers for the preferred solution to direct connect to datacenters and cloud service providers. Built on MEF ENNIs and premise NIDs Norstar has extensive Ethernet coverage and the ability to deliver end to end services and SLAs. Dedicated and shared options. Port and virtual EPLs available. Our [Ethernet Access Services](#) lets you run a variety of data types and connect multiple Ethernet, Private IP and Internet Dedicated Ethernet (IDE) circuits across the same connection. Offers up to 1 Gbps of symmetric speed.

## ASYMMETRICAL ETHERNET



Asymmetric Ethernet fills the gap for businesses where other broadband services have fallen short. It offers true business-class uptime guarantees and application support. Dedicated access means less latency than shared services such as cable. Offers from 50 / 1000 Mbps of asymmetric speed.

## ETHERNET OVER DS1/DS3 (EODS1/DS3)



Ethernet over DS1 with near ubiquitous coverage is the perfect solution for businesses seeking performance, simplicity, and value without the distance limits of other technologies. Dedicated access means less latency. Offers from 1.5 Mbps to 12 Mbps and bonded up to 45 Mbps symmetric speed respectively.



## Gigabit Ethernet

Gigabit Ethernet service is a cost-effective solution for your company's Ethernet Transport needs. Also known as Gig-E, Gigabit Ethernet is an ultra-high capacity IP transit service offered by way of a fiber-optic cable that serves as the backbone of the communication link between the carrier and end-user. The name refers to the capacity of the link, which is upwards of 1000 Megabytes (or one Gigabyte) per second. This point-to-point or point-to-multi-point Gigabit Ethernet service offers a variety of service classes, multiple bandwidth options, fast and flexible bandwidth upgrades, along with guaranteed on-net service levels.

## Norstar Fiber Metro Ethernet



Metro fiber Ethernet is a high capacity Internet service offered to businesses using a fiber optic cable for transit between the carrier network and the end-user. Norstar Metro Ethernet is a highly reliable internet service, so you can feel confident that your company will remain connected virtually all of the time. It is Secure and seamless to install, highly scalable with reliable, symmetrical Metro-Ethernet access on 100% fiber network. It is also very economical and will always meet your needs. Norstar Ethernet is easily burstable and scalable as your business grows, with speeds ranging from 20Mb to 10 GIG. With scalable speeds and airtight security, Metro Ethernet provides a dedicated private LAN connection to all of your locations that you can



manage on your own router. Dedicated support team is available to you 24/7 and we monitor your service from both local and national Network Operations Centers — for responsive, business-class customer service.

## Benefits:

### Cost Effective

### Flexibility

### Increased Productivity

### Upgrade Service Quickly

- Increased savings over legacy networks.
- Wide range of bandwidth options.
- Reduce common network bottlenecks and network congestion.
- Simplifies LAN/WAN transport interconnection management.
- 24 x 7 customer support and network monitoring.
- Reliability, including Class of Service (CoS) which guarantees 99.99% service uptime.



# METRO ETHERNET

Metro Ethernet is an internet connectivity solution that provides blistering speeds, low latency, and immense scalability. Metro Ethernet offers a flexible, cost-effective alternative to legacy systems, combining their speed and reliability with extreme scalability. Metro Ethernet can be used as a direct, private circuit or as part of an MPLS network, offering a highly secure way to transfer data across your MAN (Metro Area Network).

Metro Ethernet services provide optical network linkages between locations utilizing the Ethernet protocol over Layer 2 of the OSI interconnection model. IP Networking extends virtual private networks between locations and leverages Internet routing capability to meet internal data communication and sharing requirements. Metro Ethernet also has built-in ability to quickly increase bandwidth without additional installation intervals. Metro Ethernet is the ideal internet connection solution to large businesses with high bandwidth needs.

- **For fast, scalable, and predictable bandwidth, with greater resilience at high speeds, there's no greater value than Business Ethernet.**

**Experience major savings and true business performance increases.**



**Free Consultation. Get an instant quote now!**



**Or Call Customer Service 1-888-755-4589**

[Terms & Conditions](#)