

# Qwest Private Line GeoMax

## High-speed, multi-protocol, fiber-optic data transport service

Qwest® GeoMax® delivers the most-advanced dedicated Private Line Solution, combining fault-tolerant, high-speed data connectivity and unparalleled reliability. Based on dense wave division multiplexing (DWDM) technology, GeoMax supports the increasing demand from customers that place a high value on increased availability, continuity/disaster recovery and load sharing among mission-critical systems. Each GeoMax system is custom designed to your specific needs. The system is individually installed and dedicated to your business to support a variety of key applications including:

- IBM mainframe connectivity and channel extension.
- Synchronous optical network (SONET) interworking.
- Local area network/metropolitan area network (LAN/MAN) connectivity and storage area networks (SANs).
- Business continuity and disaster recovery applications.

## Description

Qwest GeoMax service is a high-speed, high-capacity, multi-protocol, data-networking solution for customers with significant data transmission needs. The service, which has the capability to provide diverse routes, combines DWDM technology with 24/7 proactive network monitoring and competitive service level agreements (SLAs). GeoMax uniquely supports both native and proprietary protocols (e.g., IBM mainframes) as well as industry-standard protocols such as SONET and Ethernet. A key advantage of DWDM technology is the transparency to the data being carried on it. It is bit rate and protocol independent, guaranteeing the low latency and 100 percent throughput your applications demand.

## Features

- Highly flexible and scalable solution supporting up to 32 protected or 64 nonprotected channels on two fiber pairs.
- Up to 640 Gbps total bandwidth (at 10 Gbps per wavelength).
- Transparency—Bit rate- and protocol-independent.
- Flexible and guaranteed throughput for all applications.
- Single platform supporting multiple interfaces, protocols and applications.
- Wavelength-based protection.
- Guaranteed SLAs, including service availability, customer notification, service delivery and mean time to repair (MTTR).
- Point-to-point, ring configuration or multi-point support.
- Enabled real-time business continuity/disaster recovery capabilities.
- Innovative DWDM equipment.
- 24/7 proactive network management via simple network management protocol (SNMP) with optional “read only” capabilities.

## Benefits

- Fast—Individual circuits with up to 10 Gbps of capacity.
- Valuable—Large capacity at low cost.
- Compatible—Transparent, with certification of interoperability with other vendors.
- Flexible—Several protocol and design options.
- Scalable—Quickly adaptable for faster and increased amounts of traffic.
- Safe—Choose protection levels by circuit; dedicated system to prevent outside customer traffic intermingling.
- Reach—Qwest® has the broadest fiber footprint in the 14-state region, providing customers with unprecedented reach to thousands of on-net sites.

- Price—Superior pricing; includes several pricing plans.
- Quality—As one of the largest transport providers on the globe, the Qwest team regularly provides advanced solutions complete with comprehensive support via a state-of-the-art network operation center (NOC) and local field support.
- Dedicated—Qwest has fully dedicated sales engineers providing custom designs and solutions.

#### **How it works**

GeoMax uses DWDM technology that enables two or more optical signals with different wavelengths to be simultaneously transmitted in the same direction over one strand of fiber. Separating the wavelength at the distant ends dramatically increases the capacity of an optical fiber. The technology allows Qwest to transport high-bandwidth native optical interfaces supporting mainframes, data center connectivity, next-generation SONET and fiber-saver applications. In addition to capacity boost, DWDM offers complete transparency, allowing support of multiple customer protocols and applications on a single platform.

#### **Why buy from Qwest?**

- Qwest sales teams, technicians and engineers are experienced in developing custom solutions, including GeoMax service, that meet customers' specific needs for high-speed data communications.
- Supported by a legacy of telecommunications know-how, our professionals are always available to help create and maintain a multimedia network, allowing you to benefit from the latest advancements in technology.
- Qwest has the most dense fiber footprint in the 14-state local service territory.
- Qwest SLAs have service availability greater than or equal to 99.999 percent.

#### **Other products available from Qwest**

In addition to GeoMax, Qwest has an array of products to meet your needs, including:

- Qwest® Synchronous Service Transport (SST)
- Qwest® Self-Healing Network Service (SHNS)
- Qwest® Metro Optical Ethernet (QMOE)

Qwest Corporation GeoMax® service is a high-bandwidth Private Line solution available on an individual case basis (ICB) in the Qwest local service territory of AZ, CO, IA, ID, MN, MT, NE, NM, ND, OR, SD, UT, WA and WY. Distance limitations, specific hardware, software and configuration requirements apply. Minimum three-year term of commitment required. GeoMax is not available outside the Qwest local service territory at this time. Termination liability applies.