



**Leading Provider of Gig-E Broadband,
Satellite Ground Station,
and Cloud Service Connectivity**

Robust Digital Connectivity Beyond the Last Frontier.

Quintillion Subsea Operations, LLC is the first and only telecommunications operator to build a submarine and terrestrial fiber optic cable network in the Northwest and North Slope Arctic regions. Spanning over 1,600 miles, Quintillion's US-owned, carrier-grade system currently provides Gig-E data transmission capacity at incomparable levels of security in a remote, yet geopolitically significant region. Quintillion's Arctic ground station, located at the northernmost point in the U.S. in Utqiagvik, Alaska, features a 3.7-meter antenna that operates on the S and X bands and can see up to 12 satellite passes per day.



EXTENDED CAPACITY AND SPEED IDEAL FOR NATIONAL SECURITY NEEDS

Quintillion's existing network provides 30 Tbps capacity and is scalable up to 90 Tbps, providing unrivaled security, speed, and capacity for ground-based defense systems and other security needs.



RESILIENT TO CYBERTHREAT

Unlike 5G or satellite systems, which are susceptible to RF interception and disruption, Quintillion's fiber network is buried and hardened against these potential surveillance threats. The subsea Arctic environment provides an additional layer of physical access protection and the Cable Landing Stations (CLS) are secured and monitored 24x7.



PROTECTED AGAINST INTERFERENCE AND DAMAGE

Quintillion's cable network is strategically routed to avoid common environmental causes of damage, and our subsea fiber cable is engineered to withstand challenging Arctic conditions with burial up to 12' deep.



DESIGNATED CRITICAL INFRASTRUCTURE

The only subsea fiber optic cable network in the US Arctic, Quintillion's network is designated "critical infrastructure" and does not contain any non-compliant foreign components. Quintillion maintains a letter of assurance with TeamTelecom and actively engages with representative departments of DHS, DOJ, and DOD.



CONNECTING ALASKA

Headquartered in Anchorage, Quintillion has established close relationships with Alaska Native corporations that serve federal agencies. Its distribution model also works with several local internet service providers, thereby increasing capacity to rural Alaska x 100 while fostering healthy competition favoring end users.



BUILDING FOR THE FUTURE

The durability of Quintillion's cables, the unprecedented depths at which they are situated, and the planned expansion of the network to the Pacific Northwest, Japan, Canada and Europe ensures Quintillion will be a leading provider for decades to come.

SATELLITE CAPABILITIES

Quintillion has built a satellite ground station to enable satellite downlink activity on U.S. soil. Its 3.7-meter antenna operates on the S and X bands and can see up to 12 satellite passes per day. The ground station is connected via fiber to the Equinix SE2 International Business Exchange in Seattle.



Infrastructure

INFRASTRUCTURE SYSTEM SPECIFICATIONS

3PairSystem – initial design capacity
100Gbps x 100 per fiber pair = 30 terabit
per second capacity

Resilient network design, with burial up
to 12' below seabed

Six cable landings installed 60– 80' deep
in steel conduit up to a mile offshore

Robust feeds and redundant equipment
at each Cable Landing Station (CLS) with
24/7 monitoring and response

Satellite ground station located at 72
degrees latitude in Utqiagvik on the
north slope of Alaska operating on the S
and X bands



1 - IN SERVICE

Serves North America's largest oil and gas fields at Prudhoe Bay

- 505 miles terrestrial fiber running parallel to Dalton Highway
- 1,182 miles of fiber buried 12' below seabed
- Arctic ground station with a 3.7-meter S & X band antenna establishing communications with low earth and polar orbiting satellites and a direct fiber connection to Equinix's SE2 International Business Exchange in Seattle.

2 - IN PLANNING

*Achieves route diversity,
reduces latency, and
establishes Asian network*

- Extends from Washington State to Japan
- Connects Alaska to Washington State

3 - PLANNED

*Establishes Canadian &
European Network*

- Connects Alaska to Canada
- Extends from Canada to London

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