

Real-Time Drilling Data for Enhanced Operational Efficiency



Reliable Multi-Carrier Connectivity at Remote Drilling Sites

When you're managing a drilling site, you need reliable always-on connectivity to measure seismic activity, equipment health, and much more. For a fully integrated drilling data solution, companies need fast, accurate, and reliable information at any time and anywhere. To access critical drilling data in remote and harsh environments, these companies rely on USAT for the best in wireless networking equipment and devices.

The Challenge | Achieving Reliable Connectivity in Remote and Harsh Environments

Drilling sites are on the move all the time—it's the nature of the industry. When your drilling site is in a remote location, connectivity for accurate data presents a challenge. Relying on cellular carriers to have a nearby tower for coverage cannot be relied upon. When you're moving from site to site, you need to consistently switch carriers, which makes drilling data difficult to gather with accuracy. How do you provide connectivity to thousands of drilling rigs across a wide geographic range without knowing multiple carriers' coverage at each location?

Providing reliable connectivity at drill sites also requires a rugged solution. Oil drilling rigs are found everywhere—from North Dakota where temperatures average 2° F during the coldest months (and where the recorded lowest temperature is -60° F) to Arizona where average temperatures in July can reach up to 106° F (with the highest temp on record reaching an extraordinary 128° F).

While having the ability to monitor drilling sites is key to the success of extraction enterprises, any remote networking solution has to overcome the problems posed by location.

The Solution | AirLink RV50X Industrial LTE Gateway and Poynting LPDA Antenna

Many companies choose the AirLink RV50X Industrial LTE Gateway for their drilling sites. As a dual-SIM device, the AirLink RV50X gives you the ability to have the same hardware at each site, while picking up the best carrier service available from your location.

Cat-6 LTE connectivity ensures that those who use this powerful gateway have the fastest connection speeds available. Additionally, the AirLink RV50X's small form factor and durability make deployment in even the most adverse environmental conditions easy. This is a rugged gateway purpose-built for rugged industries such as oil drilling. For applications requiring Wi-Fi, or greater data throughput, we recommend the new AirLink RX55 (*just as durable, but comes with a Cat 7 LTE-Advanced modem and optional Wi-Fi configurations*).

When your drilling sites are located several miles from the nearest cellular towers, you also need powerful high-gain directional antennas capable of connecting on the fringe. Easy to align, and capable of covering multiple frequencies, the team at USAT generally recommends the pole mounted LPDA-92, manufactured by Poynting, and always in stock at our warehousing facilities.

When combined with AirLink Management Service, operators can remotely manage all of their AirLink devices and equipment at drilling locations spread far and wide. Through this cloud-based management system, you can monitor drilling equipment at their sites, make software and security upgrades, and troubleshoot issues from anywhere.

Industry Profile

- Oil + Gas Companies
 - Remote Drilling Sites
 - Drilling Contractors

Featured Solutions

- AirLink RV50X Routers
- AirLink Management Service
- Poynting LPDA Antennas

Targeted Results

- Low Power Consumption
- Automatic Carrier Switching
- Real-Time Data Transmission
- Remote Management



USAT delivers oil and gas companies and their contractors the end-to-end communications solutions they need to support their mission-critical remote drilling operations.



AirLink RV50X



AirLink RV50X Highlights

- LTE-Advanced Performance
- Uses Less Than 1 Watt
- Ideal for Solar-Powered Applications
- Ruggedized, Industrial-Rated Form Factor
 - MIL-STD-810G and IP64
 - Operating Temp: -40°F to +158°F
 - Class 1, Div 2
- Enables Edge Computing Applications (with ALEOS)
- Dual-Sim Functionality for Automatic Failover
- Includes 1-Year of AirLink Complete

Poynting LPDA Highlights

- Frequency Bands: 698 – 3800 MHz
- Max Gain: 11 dBi
- 5G Ready: Yes, with 3.5 GHz CBRS
- Polarization: Linear
- Ruggedized for Outdoor Applications
 - MIL-STD 810F and IP65
 - Wind Survival: <160 km/h
 - Operating Temp: -40°C to +70°C
 - Flammability Rating: UL 94-HB
 - Impact resistance: IK 08

Poynting LPDA-92



The Results | Connectivity at Remote Drilling Sites

With the AirLink RV50X and AirLink Management Service coupled with high-powered antennas from Poynting, those responsible for managing and monitoring drill sites have an integrated end-to-end connectivity solution that is as rugged as it is reliable.

Dual-SIM capabilities enable drill sites to connect to the best carrier in each region, extending up to 25 miles from the nearest cellular tower, providing unparalleled network performance in even the harshest and most remote environments.

USAT devises networking solutions for oil and gas organizations, as well as drilling contractors. AirLink Gateways and ALMS software have been deployed at land-based drilling rigs from coast to coast for the best remote connectivity on market.

The Team | Device Provisioning, Activation and Installation Services

For over 25 years, USAT has provided wireless connectivity solutions for drilling operations across the USA. With our extensive catalog of routers, gateways, and software for the remote management of your equipment in the harshest of environments, you can count on us to keep you connected.

Better connectivity at drilling sites translates to less manual maintenance of your equipment, reduced downtime, and an overall increase in your business's ROI. Contact the experts at USAT to learn how our wireless networking solutions can help your organization reach its goals.

CONTACT US TODAY TO ENGINEER YOUR REMOTE DRILLING COMMUNICATIONS SOLUTIONS



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