

Intelligent Manufacturer of Enterprise-Grade Optical Routers for Oil Pipeline Monitoring



Overview

By using the native hard pipe (NHP) technology in an E2E manner, Huawei's Intelligent Pipeline Optical Communication Solution delivers high security and reliability while supporting smooth evolution from SDH to OSU. Usually located in harsh environments like remote mountainous areas, the Gobi, and other deserts, oil and gas production and transportation are faced with challenges such as security issues, difficult management, and inefficiency. Unattended BVSs, intelligent security supervision, and digital. Digi IX Cellular Routers are rugged, carrier-certified routers designed for reliability in the harsh environment of oil fields. They deliver resilient cellular connectivity for pipeline sites, wellheads and remote facilities — with remote configuration and management via Digi Remote Manager. It comes with proprietary software, FOpipe Suite, and patented. OCC solutions sustain end-to-end systems capable of DCS/PLC automation/control architectures, SCADA systems, IPTV/CCTV/CATV networks, and many other applications in any drilling environment. Communication You Can Count On. The challenges of the industry are many. The need to modernize aging. Provide IoT solutions for government departments, enterprises and institutions, industry users, system integrators, and operators.



Article Content

Oil and Gas Pipeline Monitoring | Paulsson

Ensure pipeline safety with Paulsson, Inc.'s advanced fiber optic monitoring solutions. Detect leaks, ground shifts & temperature changes in real time.

Huawei Unveils an Industrial Optical Communication

To address such challenges, Huawei released the industry's first ultra-low-power consumption, industrial-grade OSU CPE — Huawei OptiXstar E810.

Huawei Unveils an Industrial Optical Communication Solution at CIPC

As this year's CIPC officially kicked off in Beijing today, experts and academia from around the world gathered in the Chinese capital to explore future development avenues for oil and gas pipeline

Application Solution for Oil Pipeline Online Monitoring System

An oil company operating a 500-kilometer pipeline in a remote desert region faced challenges in monitoring pipeline integrity and security. The company decided to implement an online

Oil and gas

For the intelligent oilfield system, the Four Faith using 5G industrial router, 5G industrial CPE, 5G IoT RTU network cameras, and other monitoring terminal

Hongdian Smart Oil and Gas Pipeline Management

Hongdian's smart oil and gas pipeline management solution integrates advanced AI and automation to provide comprehensive support for safe pipeline operations. It

Who are the leading innovators in gas pipeline network monitoring for ...

Within the emerging innovation stage, gas pipeline network monitoring, inspection robots and intelligent predictive maintenance are disruptive technologies that are in the early stages of

Oil & Gas

Our solutions for oil and gas applications provide consistent communication architectures based on the most reliable products that boost availability and performance throughout the entire life cycle of an

Oil and Gas Connectivity Solutions | Digi International

Digi Remote Manager® provides secure, centralized monitoring and control of connected assets. From pipelines to wellheads, it delivers real-time visibility,

An intelligent optical fiber-based prewarning system for oil and gas ...

Download Citation | An intelligent optical fiber-based prewarning system for oil and gas pipelines | The total length of the global oil and gas pipelines has increased rapidly during the last ...

A Review: Research and Application of Pipeline Robots in the Oil and ...

Abstract This study reviews the research and application advancements of pipeline robots in oil and gas pipelines. Oil and gas pipelines, as critical infrastructure for global energy

Pipeline Storage and Transportation | Huawei Enterprise

In a volatile market environment, digitalization is now imperative for every oil and gas enterprise. Indeed, only through digital transformation can intelligent pipeline

An intelligent optical fiber-based prewarning system for oil and gas ...

The recognition rate of this method in the actual oil and gas pipeline is greater than 98%, and the recognition speed of a single picture is 120 ms. In conclusion, this method solves the

Hongdian Smart Oil and Gas Pipeline Management

It offers precise control and intelligent analysis across the pipeline process, quickly identifying and responding to leaks, fire hazards, and intrusions, thereby reducing

Huawei Optical Fiber Sensing for Pipeline Inspection

Optical cables deployed alongside oil and gas pipelines act as sensors, accurately painting a picture of events threatening pipeline operations.

Intelligent Pipeline Optical Communication Solution

By using the native hard pipe (NHP) technology in an E2E manner, Huawei's Intelligent Pipeline Optical Communication Solution delivers high security and reliability while supporting smooth evolution from

Huawei's Pipeline Fiber Warning Solution Helps

Featuring intrinsic safety, simple deployment, and all-weather adaptation, Distributed Fiber Optic Sensing (DFOS) technology collects and monitors vibrations in a

Zigbee and Long-Range Architecture Based Monitoring

Oil pipeline monitoring is having a significant role in minimizing the impact on the environment and humans during pipeline accidents. The real-time

Distributed Optical Fiber Security Monitoring System | Smart DTS ...

FJINNO distributed optical fiber online security monitoring system utilizes advanced DTS/DAS technology for real-time temperature, leakage, and intrusion monitoring of oil & gas

Ciena products

Our products and solutions optimize data transmission and network management. Explore how our hardware, software, and services can help you.

Oil and gas pipeline monitoring

Our solution FOPIPE for oil and gas pipeline monitoring is offered to provide a response to these challenges. It comes with proprietary software, FOPIPE Suite,

Optical Fiber Sensing for Pipeline Inspection Solution V100R024C10 ...

Difficult to monitor in remote areas Inefficient manual inspectionComplex terrain, difficult to monitor Pain Points in Oil & Gas Pipeline Inspection Requirements for High Security and Stability Third-party

Secure Real-Time Oil and Gas Pipeline Operations Through ...

Enable Secure Real-Time Oil and Gas Pipeline Operations Through Digital Solutions What if you could improve your pipeline technology to get better insights into your operations? We provide you with the

Advances in intelligent identification of fiber-optic vibration signals ...

Based on the principles and characteristics of distributed fiber optic monitoring technology, this paper introduces the current research progress in identifying fiber optic vibration signals in oil

All-optical Sensing Brings Intelligent Automation to Oil

While sensing technologies deployed on oil and gas pipelines aren't new, they tend to be plagued by issues such as false positives, false negatives, and

Optical Fiber Sensing Solution for Pipeline Inspection

What Is Optical Fiber Sensing-based Pipeline Inspection? Distributed fiber optic sensing is a technology that uses optical fibers as sensors to measure, analyze, monitor, and locate physical quantities (such

Enhancing Gas Pipeline Network Monitoring: Discover

Enhance gas pipeline network monitoring with the top industrial routers. Explore the features, benefits, and use cases of the EDS-510E, AR7091G, and AR7088H

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.invest-bud.com.pl>

Email: sales@ibud-photonics.com

Phone: +33 1 45 62 89 07

Address: 10 Avenue des Champs-Élysées, 75008 Paris, France

This document is for informational purposes only. Specifications subject to change without notice.

