

ADVANTECH

+ Industrial IoT Connected by 4G LTE



Cost Effective Remote Equipment Monitoring?

SPOTLIGHT
MONITORING SYSTEM

Many **Industrial IoT solutions** focus on monitoring either extremely expensive equipment, or equipment that requires material replenishment: specialized gases, packaging material, even carwash detergent. Unfortunately this means a large portion, up to 95%, of industrial machinery misses out on the analytics, maintenance, and workforce optimization that IIoT applications provide.

Fortunately, **Windrock's Spotlight Monitoring System** allows operators to create an affordable, easy-to-install monitoring system specifically designed for rotating and reciprocating equipment. The system is composed of:

- Spotlight Peripheral Universal Connection (or PUC) magnetic mounted sensors send data over wires to the:
- Spotlight Controller, which acts as the central nervous system and transmits communicates over Wi-Fi with the:
- Spotlight Gateway, based on the B+B SmartWorx SmartFlex LTE router, which connects to the Spotlight dashboard and other Windrock analytics tools over LTE.

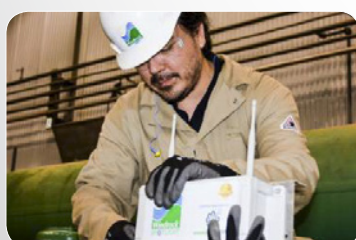
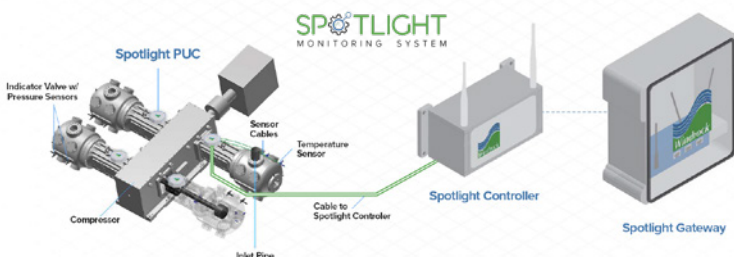
The **SmartFlex LTE** router acts as a Wi-Fi hotspot for the Spotlight PUC sensors. It was an ideal choice for the Windrock Spotlight System for several reasons:

- 1) Carrier-flexibility means the SmartFlex operates on all major networks in **North America**
- 2) Class I Div 2 and ATEX certification enables the SmartFlex to be used in hazardous oil/gas environments
- 3) SmartFlex is an open, Linux-based system designed to host custom software applications
- 4) SmartFlex uses an industrial temperature rated Wi-Fi radio which supports in harsh industrial environments
- 5) Microsoft Azure certification ensures sensitive data is protected



SmartFlex

Carrier-agile LTE
Dedicated SW Dev Tools
Ext Operating Temp
Rugged Wi-Fi
Class I Div 2 and ATEX rated



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