ADLINK Edge™ IoT Machine Condition Monitoring

Connect, Stream, Control

Features

- Connect operational equipment & sensors at the Edge
- Stream real time operational data securely to Google Cloud
- Visualize data easily
- Access Google Cloud advanced analytics



Benefits

- Capture rotation, vibration and other external sensor data
- Combine data from previously unconnected equipment
- Access valuable operational data instantly, continuously and securely
- View and understand what data you need to make decisions
- Use insight from Google Cloud analytics tools including advanced analytics, AI and machine learning to:
    - enhance existing customer databases, visualization & ERP systems
    - make informed decisions to optimize operations
    - enable predictive maintenance
    - minimize downtime
    - improve quality

Overview

ADLINK Edge™ releases the power of your operational data and enables intelligent decision-making by streaming to Google Cloud to give you access to deeper insight from advanced analytics, AI and machine learning. With no programming necessary, ADLINK Edge™ quickly connects your previously unconnected operational equipment and sensors. Then by tapping into native communication protocols data can be captured and streamed at the Edge. From the Edge this data can then be streamed securely between devices, databases and to Google Cloud enabling analysis and easy visualization to inform your decisions and optimize your operations. All in real-time.

Use Case: Smart Fracking with Edge IoT

Optimizing hydrocarbon recovery in oil and gas drilling relies upon effective machine performance and maintenance to minimize downtime. Fracking continues to be a popular method but challenges include reducing environmental risks and worker injury, as well as upholding contractual uptime agreements by decreasing invisible loss time. ADLINK's machine condition monitoring solution enables real time data to be streamed securely from devices and sensors monitoring vibration, rotation, temperature and pressure for example. Data is then streamed from the Edge to Google Cloud where advanced analytics pinpoints any problems before they cause machine failure and shutdown.



ADLINK Edge™ solutions are all vendor agnostic built on open standards and architected with modular components which allow for easy integration with any existing IT and OT system.

Specifications

Kit Name	MCM-100/MG8/GCIOT Kit
MCM-100 Specification (See also MCM-100 Series datasheet for more details)	
Processor	Intel Atom® x7-E3950 processor
Video	1x DisplayPort
Memory	DDR3L 1066 SODIMM 2 GB
Storage	Factory installed 128 GB mSATA SSD
Ethernet	2x GbE LAN (Intel® I210-IT)
Serial Port	2x COM (2 x RS-232/422/485)
USB	2x USB 2.0 + 2x USB 3.0
Mini PCIe	2x Mini PCIe card slots
Wireless Kit (option)	Wi-Fi/4G LTE wireless Kit
Power Supply	6 ~ 36 VDC, Optional 40W AC/DC adapter
Dimensions	183 (W) x 110 (D) x 83.85 (H) mm
ADLINK Edge™ platform including ADLINK Data River™	
Edge Core Apps	Node Manager, Dashboard, Service UI, Self Test
Edge OT Connect	MODBUS, OPC UA, USB DAQ (others available on request)
Edge Cloud Connect	Google Cloud IOT Core, Google Cloud IOT Edge (Google Cloud Subscription Required)
Edge Visual Connect	Node Red (other apps available on request)
Edge Historian Connect	Influx DB (other apps available on request)
ADLINK Edge IoT Machine Condition Monitoring Solution - Call for Pricing & Availability	

Define your IoT solution with an ADLINK Edge™ Digital Experiment

Give yourself the Edge with ADLINK's Digital Experiment by identifying the operational data required to achieve real business results before full-scale commitment. ADLINK connects previously unconnected equipment and sensors at the Edge and streams data securely in real time to Google Cloud enabling analysis and easy visualization to inform decisions and optimize operations.

Find real business outcomes in as little as 30 days

ADLINK Edge™ + Edge Hardware + Google Cloud IOT Tools + Business Value Assessment → Evaluation



Digital Experiments starting at $15,000 USD

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