

Manufacturing

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Real-time Data Collection and Performance Monitoring of Legacy Equipment Condition

Smart factory realization can present distinct challenges, including connection of legacy equipment and simplifying system integration for increased flexibility. Accordingly, ADLINK provides the means to integrate OT (equipment) and IT (management) technologies, creating a complete data gathering solution, with highly accurate, non-intrusive operation fast processing of extracted machine data, providing complete operating status information in real time. The Vortex Edge™ platform powers ADLINK's DEX Series to execute full-process data exchange among devices, thoroughly integrating network connection and data transmission/control in existing equipment and systems using MES or SCADA integration.

Source: [Adlink: Production Efficiency Optimization](#)

Edge computing accelerates real-time decision making and Supports proactive maintenance

With implementation of Industry 4.0, vibration analysis algorithms supported by cloud server architecture enable easy prediction of potential problems to adopt preventive action. As well, equipment maintenance or replacement can be executed preemptively, significantly enhancing efficiency. ADLINK's innovative equipment status monitoring edge computing platform delivers complete and comprehensive data acquisition, analysis, and upload. The real-time analytics can be sent to the data center, by upload to the cloud and fast connection to the ERP/MES upper layer application system. Effective dynamic preventive maintenance strategies can be generated according to machine operation status in real-time, improving equipment reliability.

Source: [Adlink: Equipment Condition Monitoring](#)

Intelligent edge computing supercharges smart manufacturing

AI implementation in edge computing enables easy implementation of normally difficult production tasks such as customized quality inspection, detection of minute irregularities in textured surfaces, and labeling recognition for irregularly stacked cargo. Machine learning, cognitive services, image processing analysis, and other complex information management tasks can be performed at the edge to make adjustments in real time. Production equipment, unmanned vehicles, and complex robotics benefit from the increased stability, reduced latency, and enhanced efficiency provided in FoF

operations, with accuracy increased through continuous training and significantly reduced development time.

Source: [Adlink: AI-enabled Machine Vision](#)

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