



## THE PLEX MANUFACTURING CLOUD

# Plex Industrial Internet of Things

Operational excellence in production manufacturing depends heavily on optimizing the performance of machines, equipment, and other assets used in production. When production equipment fails, it can produce a cascading effect that results in unplanned downtime which interrupts job schedules putting the production plan at risk.



### See What is Happening

The Plex Industrial IoT (IIoT) solution provides real-time asset performance dashboards to improve productivity and increase overall equipment effectiveness (OEE). Visualize what is happening in work cells down to individual assets within them. Plex IIoT presents a highly visual, historical view of any asset in any facility to help operators and supervisors visualize trends graphically from anywhere in the world on any connected device. Enable employees to see issues they could never see before, and respond before issues happen.



### Know What Happened

You can't improve what you don't measure, and starting every shift with the understanding of how the equipment performed last shift, last week, or even last year will provide information on where to focus improvement or maintenance activities. Plex IIoT helps learn, diagnose, and improve equipment uptime and performance to make better maintenance decisions and prevent a guessing game of when failures might occur.



### Predict What Will Happen

Predicting impending events such as equipment failure used to be limited to a gut feeling and tribal knowledge. With Plex IIoT, the tools are there to better identify trends that could disrupt proper operation and result in unplanned downtime. Accurate, real-time graphs of virtually any performance characteristic provide actionable insights about asset performance to answer questions like: "What is trending toward the control limits?", "Where are problems beginning to emerge?" and "How much time before failure?"

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### Benefits

- Ubiquitous connectivity to monitor your shop floor work cells, machines, and other assets.
- Increased visibility through industry standard sensors to monitor virtually any asset's performance characteristics.
- Diagnose events and speed response time to potential issues before they happen by visualizing performance trends graphically.
- Enable remote operations management with untethered access from any connected device from anywhere in the world.
- Increase opportunities for improvement by bringing historical equipment activity into view.
- Make better, data-driven decisions with a historical view of asset performance.

### Capabilities

- Connectivity to virtually any asset or data stream.
- Live dashboards of facility, work cell, or asset with easy-to-understand color-coding.
- Real-time view of asset status (Off, In-Cycle, Idle, Problem, Other).
- Remote access to dashboards anytime, anywhere, from any device.
- Historical view of logged asset statuses and event logs.
- Visualize data over time with graphical trendlines.
- Multiple data streams from machines and sensors.
- Security control to restrict access to authorized users.

*"While Plex Industrial IoT will provide us a direct view into the status and overall performance of assets; what we really get excited about is the ability to tie quality and part level performance expectations to asset performance – information that has traditionally been extremely difficult to generate."*

– Bob Bierwagen  
VP of Digital Strategy, MPI Corporation



Asset Dashboard displays status information on assets and workcenters and gives quick access to identifying and resolving problems through historical logs and visualizations.