



Applied SmartFactory® Monitor

Run-time monitor and predictive log analytics system increases system availability, reduces system failures and minimizes downtime.

INDUSTRIES

- Semiconductor wafer manufacturing
- Semiconductor assembly and test
- Display manufacturing

FEATURES

- Monitor optimizes system and application performance
- Log analytics uses predictive analytics algorithms to increase system efficiency and productivity
- Real-time alarm notifications and reporting

BENEFITS

- Provides real-time production monitoring for systems & applications
- Provides insights to predict future fab events
- Increases system and application availability and operations efficiency
- Reduces system failures
- Increases profitability

CHALLENGES

Semiconductor as well as Assembly and Test manufacturers are striving to keep operations running smoothly. Preventing failures or reducing downtime is critical for operations and profitability. SmartFactory Monitor offers a full set of production monitoring functionalities to address key challenges that these manufacturers face, including:

- Predicting system failures and unscheduled downtime
- Reducing mean-time-to-resolve
- Reacting to events in real-time to minimize system issues

PRODUCT DESCRIPTION

Monitor patrols your software system, enhances your factory operation, and protects your fab. It is deployed quickly by using a standard installation package and procedure, automated installers, and an optimized checklist.

Monitor provides competitive pricing and high-quality monitoring. This is achieved by combining a common shared log-analytics platform with an open-source real-time monitoring platform coupled with an experienced global monitoring team supporting multiple time zones.

Simplified Monitor Architecture Diagram



The common framework from data extraction to reporting analytics

Reduce System Failures & Increase System Availability with Monitor

✓	Run-Time Monitoring	Supports software systems and applications with monitor agents and a centralized web interface. Optimizes system and application performance to increase system availability and to prevent untimely downtime. Rules are customizable and notifications are classified by severity using multiple criteria.
✓	Predictive Log Analytics	Reduces response time and troubleshooting efforts by using log analytics with advanced machine learning algorithms. Mission-critical performance data is uploaded to log analytics servers securely and safely enabling trend, anomaly and outlier detection.
✓	Dedicated Remote Monitoring	A global monitoring team provides 24/7 monitoring service to monitor production and to maintain software system performance, stability and high availability.

Monitor Fab Operations

Detect and Predict System Failure

PACKAGE CONTENTS

SmartFactory Monitor is designed around best-known methods for improving system availability and overall performance.

The package includes templates with standardized reports and dashboards. Customers receive SmartFactory Monitoring training, which outlines template and alarm management, as well as specific interactions with SmartFactory automation products.

SOFTWARE

- Run-time Monitor
- Predictive Log Analytics

SERVICES, TRAINING AND SUPPORT

- Pre-configured templates for system and application performance monitoring
- On-site deployment
- Software maintenance
- User training