iFactory

Integrated iFactory Cloud Solution

Digitalization and Dashboard Visualization for Smart Factory Management

Solution Ready Package





System Introduction

Industry 4.0 Situation Room is the factory's nerve center where data is collected, analyzed, and visualized for real-time management. Advantech's IoT solution architecture enables the development of iSensing devices, edge intelligent gateways, and iFactory SRPs (Solution Ready Packages) as well as cloud services that help customers implement iFactory Situation Room and realize Industry 4.0. The iFactory SRPs facilitate machine connection without replacing existing equipment, allowing for collection of equipment status data, production data, and environment data. Furthermore, production monitoring, data integration with MES, and visualization on the situation room dashboard can be realized for production optimization and data-driven decision-making.



OEE Overview

- Real-time Machine Status Monitoring
- Machine Availability & Line Balance Rate
- Warning of Equipment Failure or Abnormal Operations

WISE-PaaS/Dashboard



- 1 Focal Point: Real-time Information
 - Live Video Streaming
 - Key Production Index
 - Production Management Information



Machine Availability

- Real-time Machine Status
- Machine Status Timeline
- Actual Production Time and Production Hours Lost



2 Interactive Dashboard: Central Management System

- Factory Overview
- Machine Availability
- Line Balancing Rate
- Overall Availability Analysis



Assembly Dashboard

- Assembly Line Information
- Work Order Completion Rate
- Production Yield Rate
- Production Efficiency

Management Scorecard: Operational KPIs

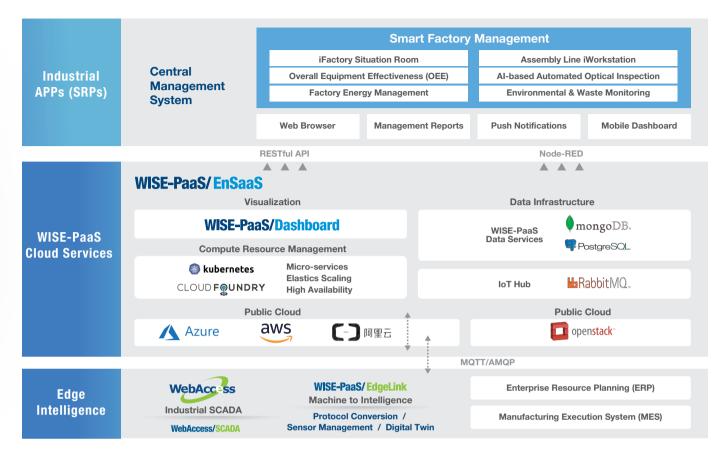
- Operation Management
- Employee Management
- Supply Chain Management
- Quality Management



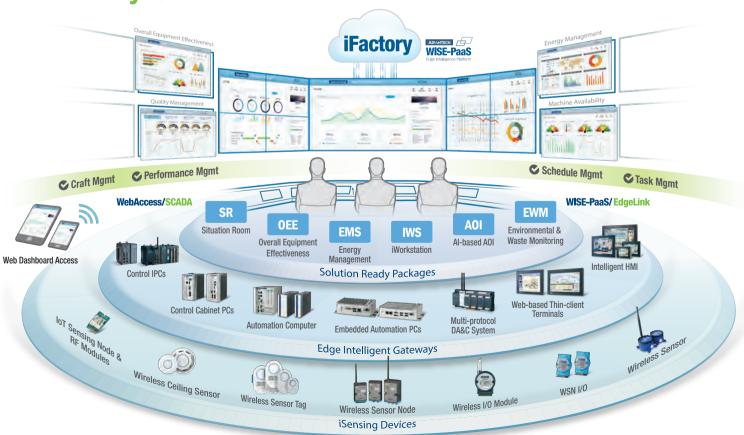
Energy Consumption by Organization

- Comparison Chart by Timeline and Facility Equipment
- Bill and Cost Comparison vs. Previous Year
- Specific Circuit Information and Status

Software Diagram



iFactory SRP Architecture



Feature Highlights

Data Acquisition

Automatic data acquisition enables complete production information transparency for manufacturing process optimization and real-time operations management.

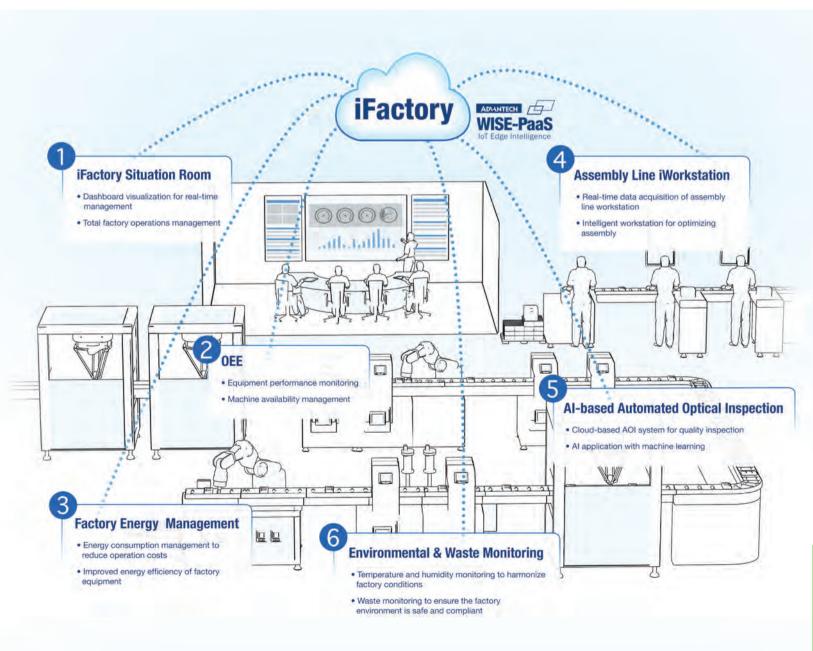
Dashboard Visualization

The user-friendly browser-based dashboard enables data visualization and analysis for managers to realize total visibility and control over factory management.

Integration with MES/ERP

Production data can be transmitted and integrated with manufacturing execution systems, enterprise resource planning systems, and other management systems.

Integrated iFactory Cloud Solution



Ordering Information

Solution Package

WISE-PaaS Situation Room

SRP-SR-100-BTO

LCD Wall: 86" x 1 + 55" x 2 Server and Display: DS-980 x 1 Control Panel: UTC-520 x 1 WISE-PaaS/SignageCMS x 1



WISE-PaaS VIP Membership

98DPWAP2K

WISE Point: 2,000 Points



SRP-IFS210

Cloud-based Equipment Availability Monitoring Solution WISE Point: 200 Points
OEE Cloud Service - Entry Level

for 200 Tags

ADAM-3600C X 1

OEE Cloud Edge Server WISE-PaaS/EdgeLink



WISE-PaaS/ EdgeLink

SRP-IFS240

SMT Data Collection for Efficiency Enhancement Solution

ACP-4000 X 1

Windows Server 2016

UNO-2272G X 1

Windows Embedded 7 Pro WebAccess/SCADA 300 Tags



WebAccess/SCADA

SRP-IFS320

Assembly Line Efficiency Monitoring System TPC-1551T x 1

Windows Embedded 7 Pro ALM Service APP



SRP-IFS321

Assembly Control and Data Acquisition

ADAM-3880-AE x 1 Screwdriver x 1



SRP-EMS010

Energy Management System

HPC-7242 x1

Windows Server 2016 R2 WebAccess/EMS



SRP-EMS400Energy Situation Room

UNO-2483G x1 ECU-1251 x1

Windows 7 Embedded Pro WebAccess/EMS



SRP-EMS401

On-Site Energy Data Acquisition

ECU-1152 x 1 WISE-M502 x 3

WISE-PaaS/EdgeLink





WISE-PaaS/ EdgeLink

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