

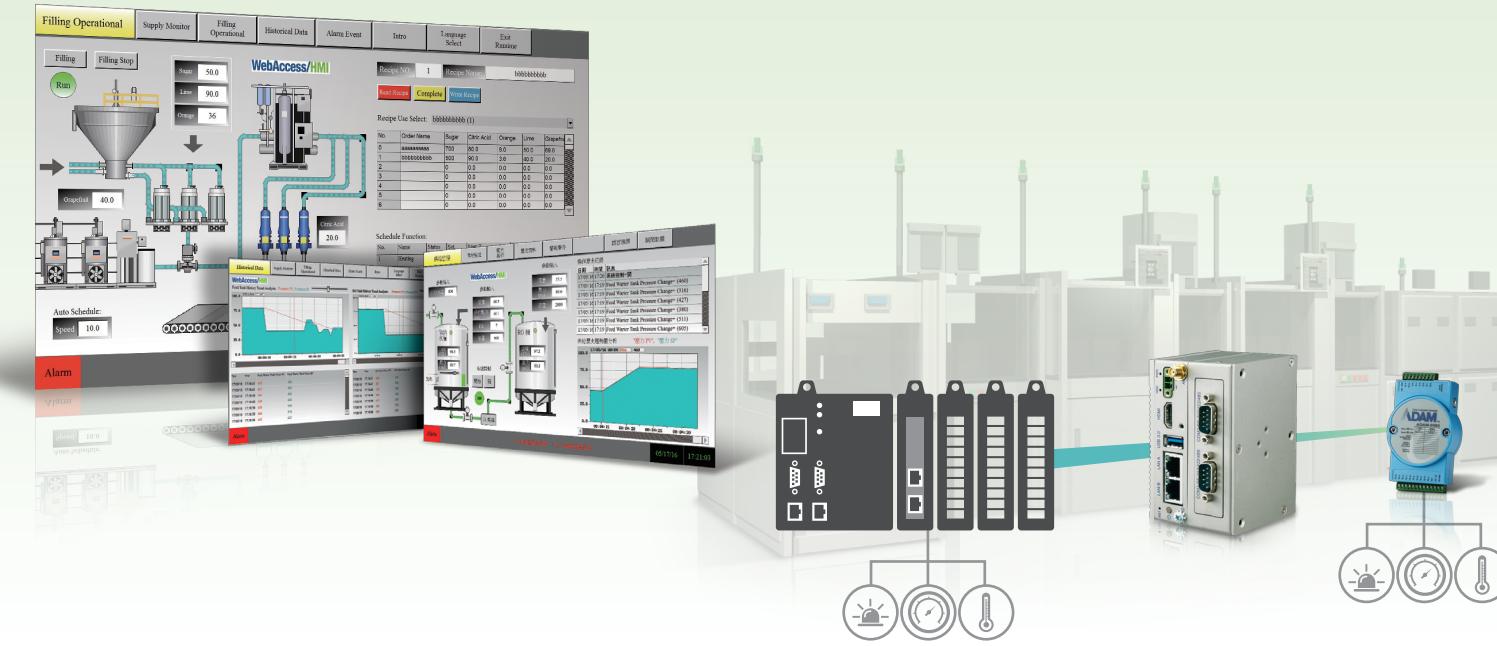
Equipment Connectivity Solution

Machine Data Acquisition for Monitoring & Optimization

SRP-FEC220



- ✓ 100% Data Acquisition
- ✓ Easy Protocol Conversion
- ✓ Connect OT to IT



Application Scenario

How Equipment Connectivity Works in the Factory

Machine/ Cabinet



Pain Points of Global Manufacturers

Data in Black Box

To optimize equipment performance and reliability, engineering teams always make improvements through machine operation data analysis, temperature monitoring, or power consumption. However, data is sometimes contradictory due to the sensors, meters, or PLC controllers being limited in connectivity and different devices from different vendors each having their own proprietary protocols.

High Wall of Communication

Proprietary communications obstructing machinery data integration usually require knowledge of driver development and comprehensive coding effort to complete protocol transfer.

Infeasible for Analysis

Advanced data analysis is always done by IT systems with powerful computational capabilities. Nevertheless, open communications such as Modbus/ MQTT/ OPC are required for bridging devices at the OT level and system analysis at the IT level.



Ordering Configuration Table

SRP-FEC220 Machine Monitoring & Optimization

Package Offering

Application Software :	OS :
WebAccess/HMI Runtime 1500 tags x1 Preinstalled WebAccess/HMI Runtime 1500 tags	Microsoft® Windows Embedded 7 Pro x1 Preinstalled Microsoft Windows Embedded 7 Pro
System Computing :	Peripherals:
UNO-2271G-E23AE x1 Intel® Atom™ Pocket-Size Automation Computer, 32G eMMC	ADAM-6060-CE x1 6-ch Digital Input and 6-ch Power Relay Modbus TCP Module

Optional Configuration

Option 100 WISE-PaaS/SaaS Software	Option 400 Add-on Accessories
[101] WebAccess/SCADA Dongle Key V8.2 Pro. 1500 tags (WA-P82-U15HE)	[401] Power Adaptor (PWR-247-CE) Qty: _____
[102] WebAccess/SCADA Dongle Key V8.2 Pro. 5000 tags (WA-P82-U50HE)	Qty: _____
Option 200 System Computing	Option 800 Training & Consulting Service
[201] 12.1" XGA Ind. Monitor w/ Resistive TS (FPM-7121T-R3AE) *HDMI to VGA Adapter is required	[801] 1 Hr Quick Start Phone Support Qty: _____
Option 300 I/O & Peripherals	Remark
[301] Distributed Digital I/O (ADAM-6060-CE)	Qty: _____
[302] Distributed Analog I/O (ADAM-6024-A1E)	Qty: _____

Order in 3 Easy Steps



ADVANTECH
Enabling an Intelligent Planet

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SRP-FEC220
Online Catalog

ADVANTECH
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ADVANTECH
WISE-PaaS
IoT Software Platform

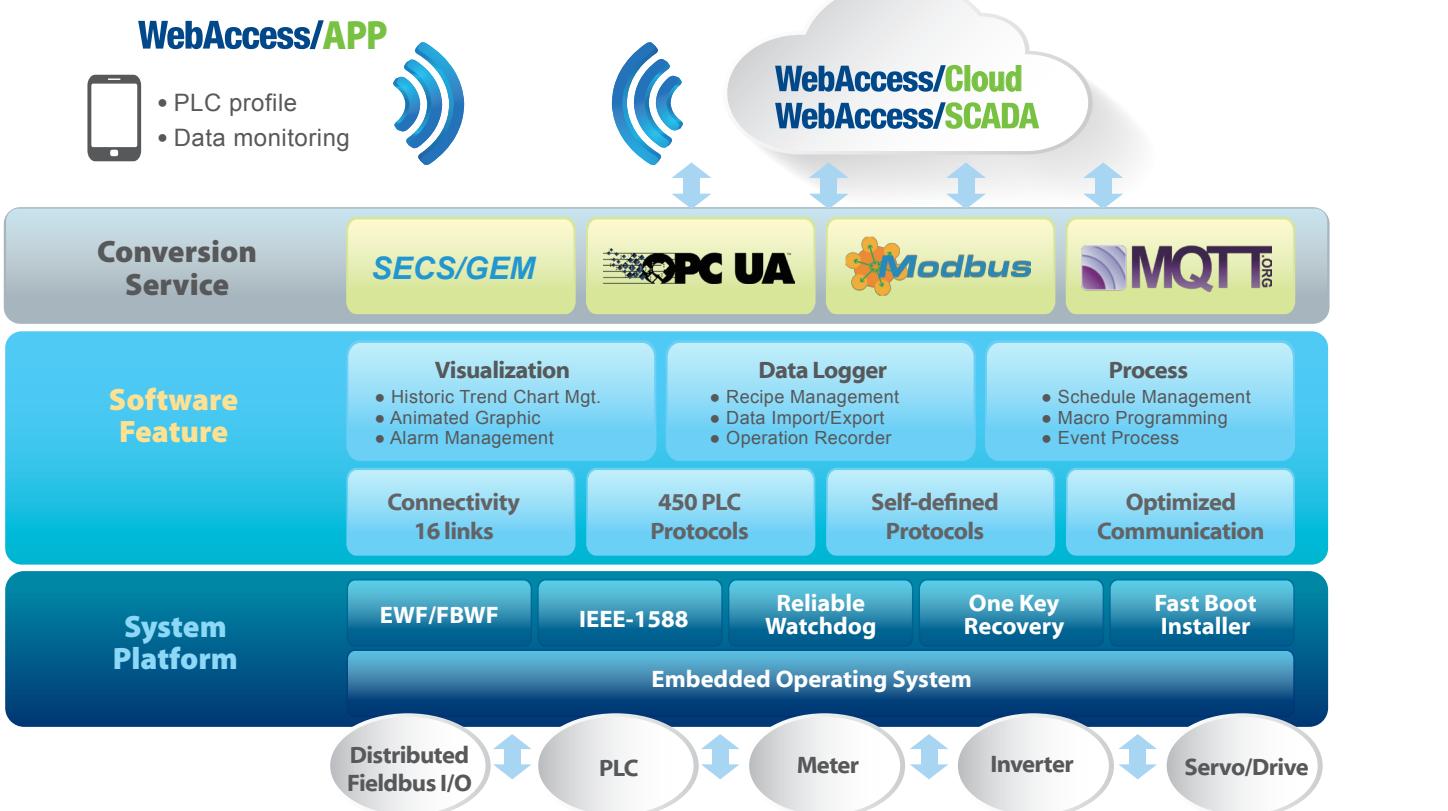
More on SRP-FEC220 website

Entering a New Era of Smart Manufacturing

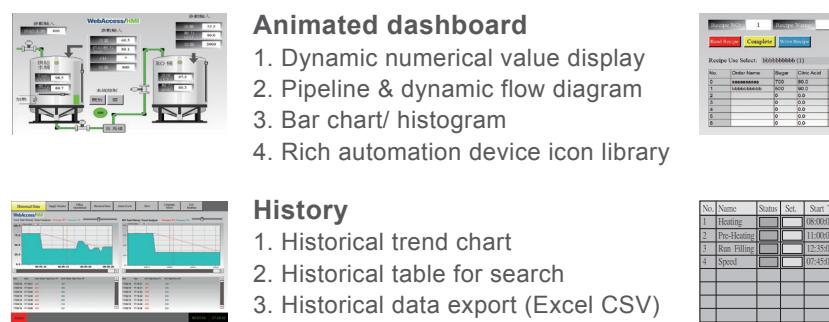
Introducing SRP-FEC220 Solution for Machine Monitoring & Optimization

This Solution Ready Platform allows users to easily acquire 100% of equipment data through 450 PLC drivers, self-defined communication protocols and a distributed digital I/O module. Equipment data is available for OT/IT system integration via Modbus/ OPC UA/ MQTT with visible production information, optimized production profiles and more.

Software Architecture and Key Design Features



HMI Design Features



System Block Diagram



Key Advantages/ Features

100% Data Acquisition

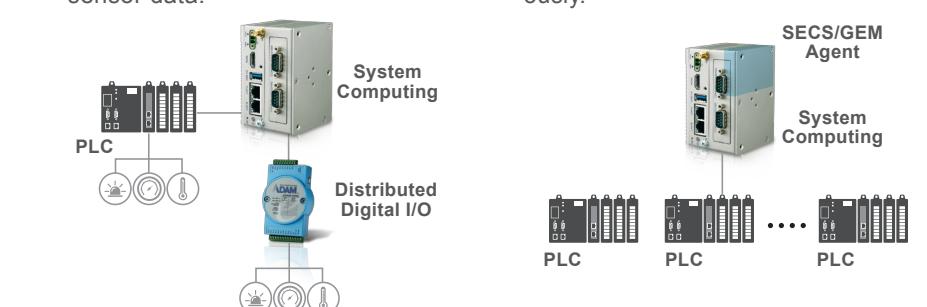
Supports 450 PLC communication drivers and self-defined protocol to completely acquire controller status, temperature, humidity and other sensor data.

Flexible Protocols Conversion

Greatly shortens engineering time through intuitive UI setting to rapidly convert protocols for a max. of 15 different branded PLCs simultaneously.

Easily Connect OT and IT

Supports Modbus / OPC UA/ MQTT connection to SCADA/ MES system to optimize production efficiency.



Solution-Ready-Platform Package

WebAccess/HMI Runtime Software

Pre-installed WebAccess/HMI Runtime 1500 tags

UNO-2271G-E23AE

Intel® Atom™ E3815 1.46 GHz
Pocket-Size DIN-Rail PC, 4GB RAM, 32G eMMC Storage, Microsoft® Windows Embedded 7 Pro



ADAM-6060-CE

6-ch Digital Input and 6-ch Power Relay Modbus TCP Module



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