PACSYSTEMS FOR SMART SOLUTIONS

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EMERSON MAS SYSTEMS & SOLUTIONS INJU.AN(INJU.AN@EMERSON.COM)



2020 AT-A-GLANCE



TWO BUSINESS **PLATFORMS**



AUTOMATION SOLUTIONS

\$11.2B IN SALES



\$5.6B IN SALES

\$16.8 BILLION

IN GLOBAL SALES **FISCAL YEAR 2020** **\$2.4B ANNUAL SALES** FROM SOFTWARE PORTFOLIO



INNOVATION EMERSON EMPLOYEES HELD

21K **ACTIVE PATENTS** WORLDWIDE IN 2020

FORTUNE 500 #176 AMERICA'S LARGEST CORPORATIONS BY REVENUE

RECOGNITION - 2020

TOP 50 EMPLOYERS WOMEN ENGINEERS MAGAZINE

BEST EMPLOYERS FOR DIVERSITY FORBES MAGAZINE

INDUSTRIAL IOT COMPANY OF THE YEAR IOT BREAKTHROUGH

CONSECUTIVE **INCREASED** DIVIDENDS



COMMERCIAL & RESIDENTIAL SOLUTIONS

EMERSON KOREA 32YESRS ESTABLISHMENT





Improving Process and Industrial Manufacturing Performance with Measurable Results

Industries Served include

- Oil and Gas/Refining Chemical
- Power
- Food and Beverage
- Metals and Mining
- Water and Wastewater
- Life Sciences
- **Automotive**
- Electronics

Core Expertise & Key Brands

Industrial Internet of Things

Plantweb

Systems and Asset Management

- DeltaV
- Ovation

Measurement Instrumentation

- Rosemount
- Micro Motion

Fluid Control & Pneumatics

- ASCO
 PACSYSTEMS[™]
- AVENTICS

- Bettis • KTM
- Fisher Vanessa
- Keystone

Welding, Assembly and Cleaning

Branson

Electrical and Lighting

 Appleton SolaHD

Industry Services and Solutions

- HTE

Valves, Actuators and Regulators

BUILDING A COMPREHENSIVE AUTOMATION CAPABILITY

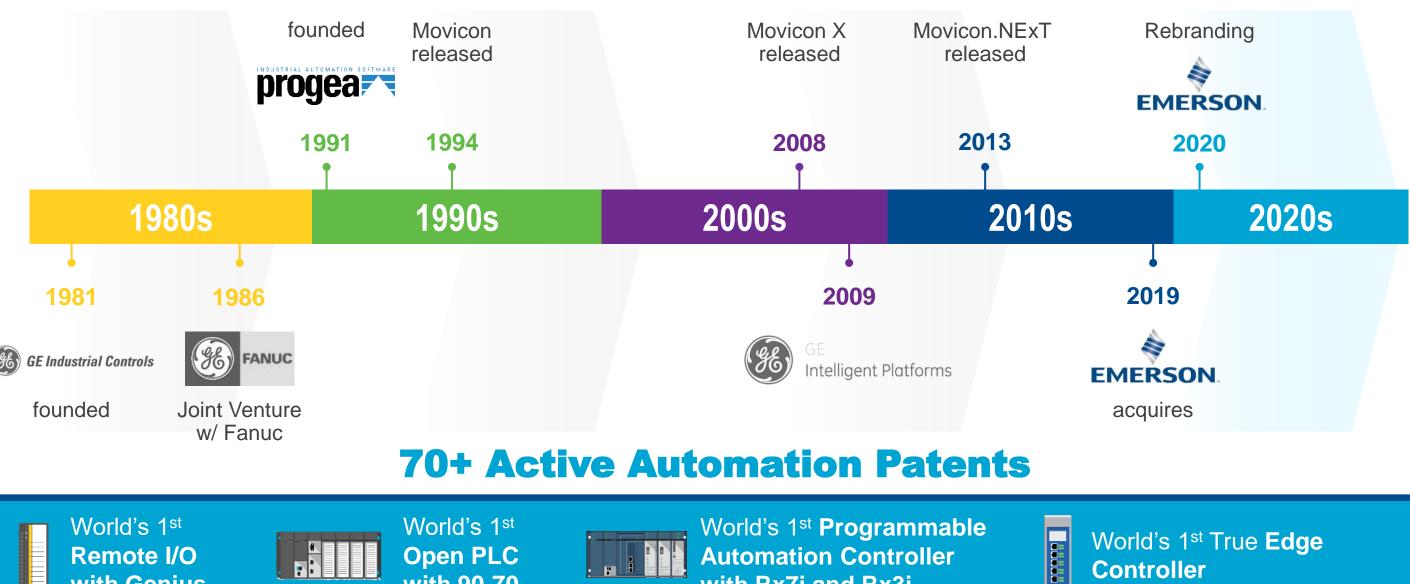
30+ Years of Automation Expertise & Innovation

Open PLC

with 90-70

Remote I/O

with Genius



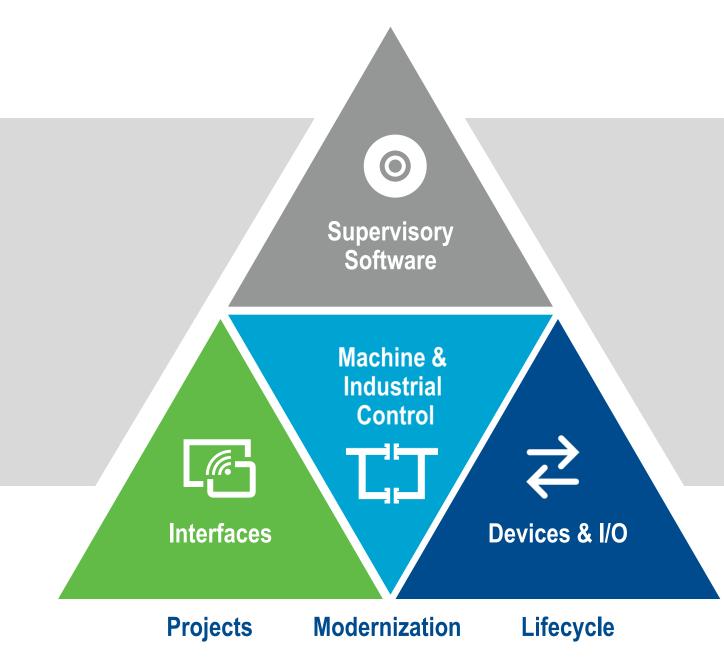
Automation Controller

with Rx7i and Rx3i



World's 1st True **Edge** Controller

OUR INDUSTRIAL AUTOMATION & CONTROLS PORTFOLIO

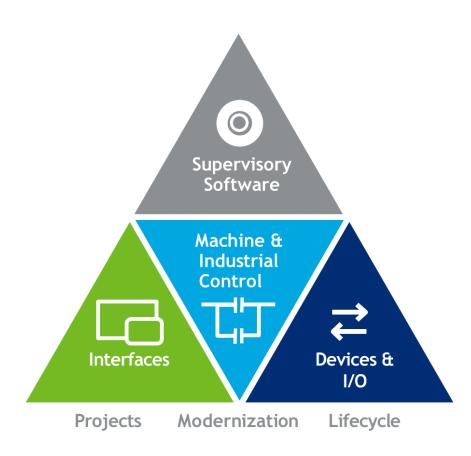


Connectivity is at our core – reaching beyond conventional standards to anticipate trends and reimagine the intersection of control, software, interfaces and devices to meet your future industrial automation and control needs.



From the control room to the plant floor, PACSystems redefines the industrial edge.

In automation controls applications across all industries, ranging from process to discrete, expansion and diversification are driving the need for flexible, scalable control solutions. PACSystems solutions allow end users and OEMs to bring their operations into the modern world at a realistic and affordable pace, scaling and upgrading to meet the needs of today's buying trends and production realities. With connectivity at its core, the PACSystems devices and architecture reaches beyond conventional standards to anticipate trends and re-imagine the intersection of control, software, interfaces and devices to meet your future industrial automation and control needs.



Supervisory software

Machine and industrial control



Drive productivity and speed development with secure, collaborative and integrated control software. Program and configure PACSystems devices using native tools, open standards, and a fully integrated development environment. Apply version control and authenticate and secure communications using a common set of configuration tools. Tackle a diverse range of application requirements with the robust, reliable line of PACSystems industrial controllers. Delivering deterministic, high-speed control (from as low as 24 to over 32,000 I/O points), these best-in-class controllers are interoperable with most industry standards, redundant and secure by design, and operate without compromise in the most demanding conditions.

Interface



Give your operators fast, clear access to data with the PACSystems line of rugged industrial displays. The comprehensive portfolio of modular HMIs and touchscreen devices combines the ease of use of consumer-grade technology with the industrial-level durability needed for harsh environments. The modular design allows for easy scalability while built-in daisy chaining capability helps simplify connectivity and reduce costs.

Devices(Motion and Safety and I/O)



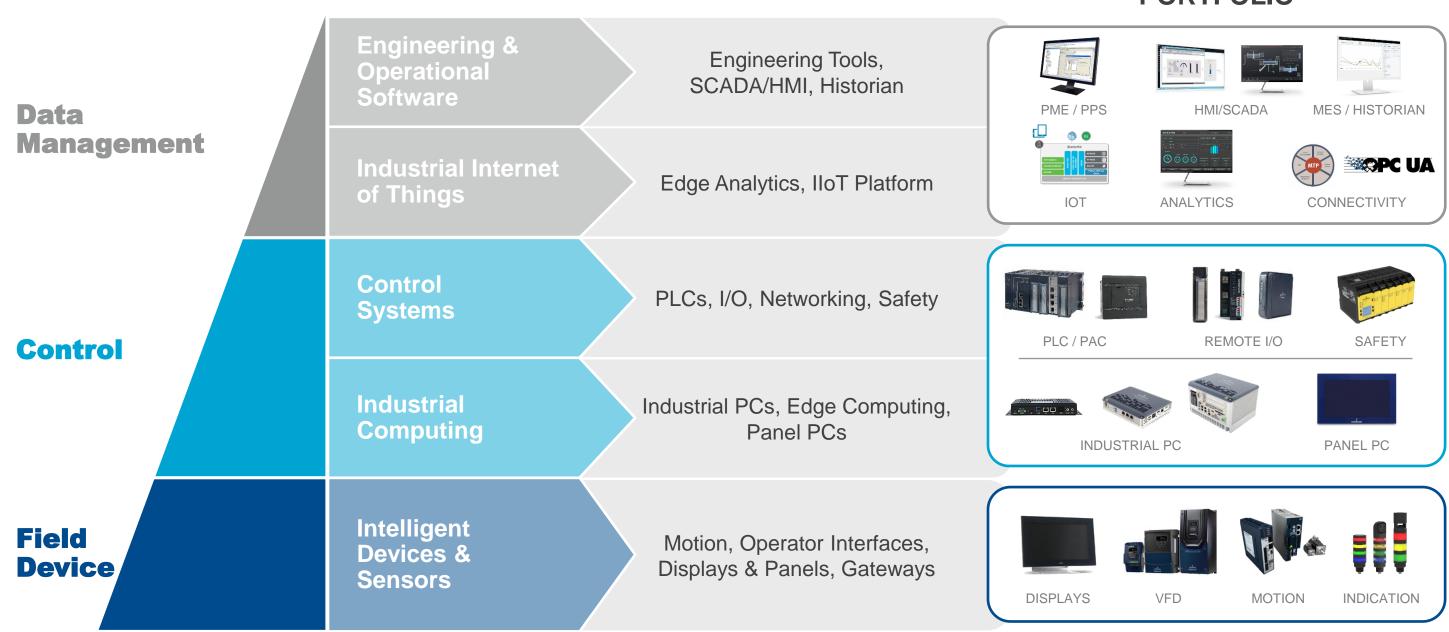


Reap the benefits of best-in-class connectivity and continuous uptime with PACSystems PROFINET-based devices and I/O portfolio. Mix and match a variety of industrial I/O as well as other industrial devices to meet your unique application demands. The right I/O for the right job reduces component cost and installation time and optimizes ROI.





OUR INDUSTRIAL AUTOMATION & CONTROL PORTFOLIO





PORTFOLIO

PACSYSTEMS[™] CONTROL SYSTEMS

HIGH-PERFORMANCE, SECURITY, CONNECTED CONTROL

Scalable

Small, compact applications to large, redundant systems with 32k I/O per controller

Open & Interoperable

IEC 61131-3 programming languages, native C-block support, multiple protocol options (PROFINET, DNP3, IEC-61850, IEC-104, HART, EGD, SRTP, Modbus, OPC-UA)

Deterministic

400µs scans, single-scan switchover and high-speed coordinated multi-axis motion

Security

Achilles certification, secure-boot, secure firmware upgrades & TPM



INDUSTRIAL IOT COMPANY OF THE YEAR (2018 & 2019)

Digital Transformation

- ☑ Turns data into actions & performance improvement
- Focuses on priority areas with a roadmap
- ☑ Measurable performance

BOST & SULLIVAN

2018 PRACTICES

GLOBAL EDGE CONTROLS AND ANALYTIC

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AWARD

Emerson once again wins 'Industrial IoT Company of the Year' award

Tony Pallone

03 January 2019

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FROST & SULLIVAN

2018 Global Edge Controls and Analytics Company of the Year Award

on that honors the top s, products and people in the internet of things (IoT) market, nized global automation y and software company as "Industrial IoT Company of for 2019. This marks the onsecutive year that Emerson /ed the distinction.

reakthrough Awards, an annual

e important aspects of s approach to driving industrial implementation for uring industry customers is its and scalable Plantweb digital



Source: IoT Breakthrough

n portfolio of technologies, software and services. Plantweb is designed to help companies turn data into actionable information and performance improvement. By focusing on priority areas with a and map tailored to business needs and readiness, Plantweb aims to reach performance standards

easured in terms of optimized production, improved reliability, enhanced safety and minimized

GE Intelligent Platforms is now known as Emerson Machine Automation Systems

energy usage.

2018

BEST PRACTICES

AWARDS



