

Modicon M580

MUCH MORE than a PLC

the first **ePAC!**



The new **Modicon M580** is MUCH MORE than a simple PAC – it is the **ePAC** – with **Ethernet** built right into its core.

Developed on the back of our **latest innovations** and **customer requirements**, it allows for operational **transparency** and **openness** using industry-standard technology.

M580 is the controller of choice for Schneider Electric's collaborative and integrated automation architecture, **PlantStruxure**.

Ethernet inside PAC



● Innovative

● Easy & flexible

● Sustainable

A concentration of innovation



Innovative

Easy & flexible

Sustainable



Innovative

Standard Ethernet

for remote racks & in-rack module connection

Open architecture with direct Ethernet connection on Backplane

Designed to be **natively deterministic** and synchronized with PAC tasks

Full standards compliance based on ODVA and FDT/DTM for field-bus masters

Proven industrial network



Ready to **face cyber attacks** with Achilles L2 certified and advanced cybersecurity features



Innovative

Evolved

Latest generation **600MHz ARM** dual-core processor

High speed communication on backplane thanks to
embedded Ethernet

Native **safety PAC** features

Monitor in real time **full system integrity**

Innovative mechanical and electronic design for
high CEM and climatic robustnesses

Innovative



High precision PAC

1ms I/O resolution native timestamping at the source also available on remote drops **without programming**

...connected to **Energy efficiency** contributors

Transparent from I/O to any SCADA through built-in system integration



Close to **YOUR** needs

Innovative

Easy & flexible

Sustainable



Easy & flexible

Design your architecture without constraint

Mix remote, distributed & standard equipment on

the same Ethernet field network with complete software integration

Simple daisy chain loop topology with no external switch

thanks to embedded CPU switches and drops (including fiber)

Field bus and expert functions **available on remote drops**

(Modbus, Asi, weighing, partnership modules...)

Transparent data transmission through Ethernet backbone



Easy & flexible

Modify full architecture
without stopping the process

Add or remove X80 drops and devices on Ethernet

Add or delete digital & analog I/O modules within a drop

Modify channel configuration parameters

Automatic reconfiguration of modules on **hotswap**

Online **application modification** during the process



Easy & flexible

Diagnose everywhere

Ethernet **brings information everywhere**

Easy remote and mobile diagnostics

Integrated **webserver access** to get information from the web

Easy HMI integration thanks to third port on drop head

Manage **SCADA screens on HMI** and access to all HMI screens



Optimized investment



Innovative



Easy & flexible



Sustainable



Secure your past and future investments

Capitalize on the **Modicon family through X80 modules** to reduce training and maintenance costs

Easy substitution between ranges

Keep your I/O **Modicon Premium wiring**

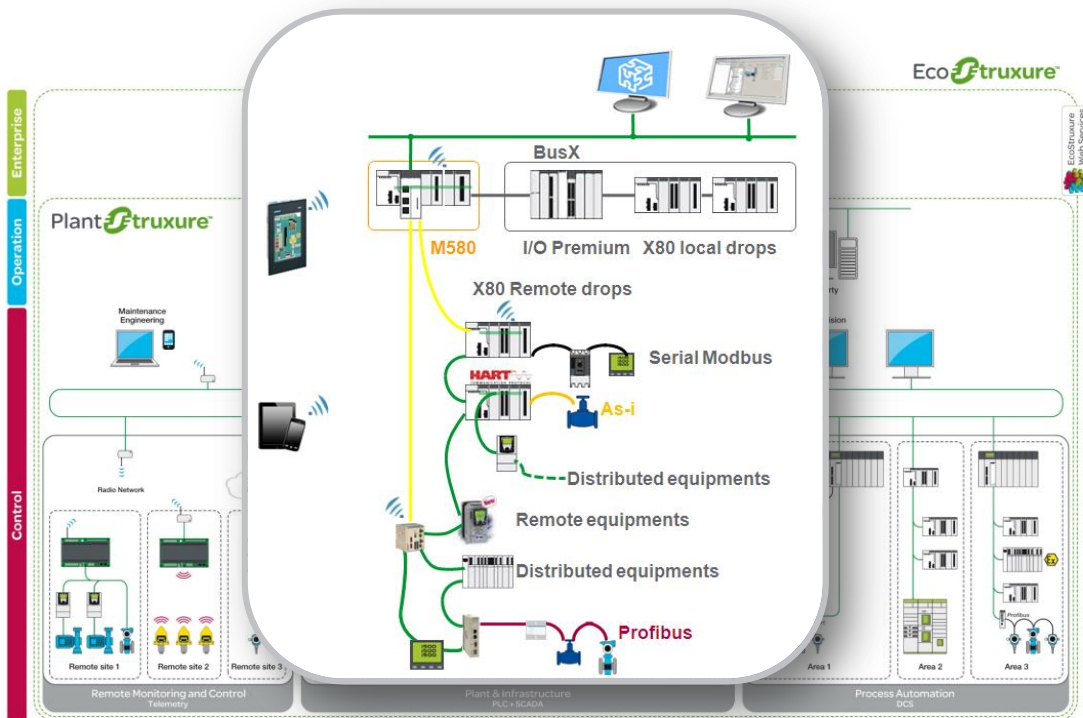
Smooth migration paths through service teams

Sustainable technology choices

Enjoy

the Digitized
PlantStruxure
experience

At the heart of PlantStruxure



PlantStruxure™ is Schneider Electric's collaborative and integrated automation architecture for industrial and infrastructure customers. It brings together our Telemetry, PLC/SCADA and DCS offerings with complete lifecycle services to help make your operations more efficient. From initial design to modernization, PlantStruxure transparently connects control, operation and enterprise levels of your business.

Your process data at your fingertips



From your mobile device and anywhere in your plant:

Quickly diagnose and identify root cause issues

Monitor your data to make the right decision

Alarm notifications to avoid downtime

Device recognition to reduce commissioning time

Digitize your plant



Native **transparency** from top to bottom

Asset Management

Diagnosis
Calibration
Maintenance
FDR



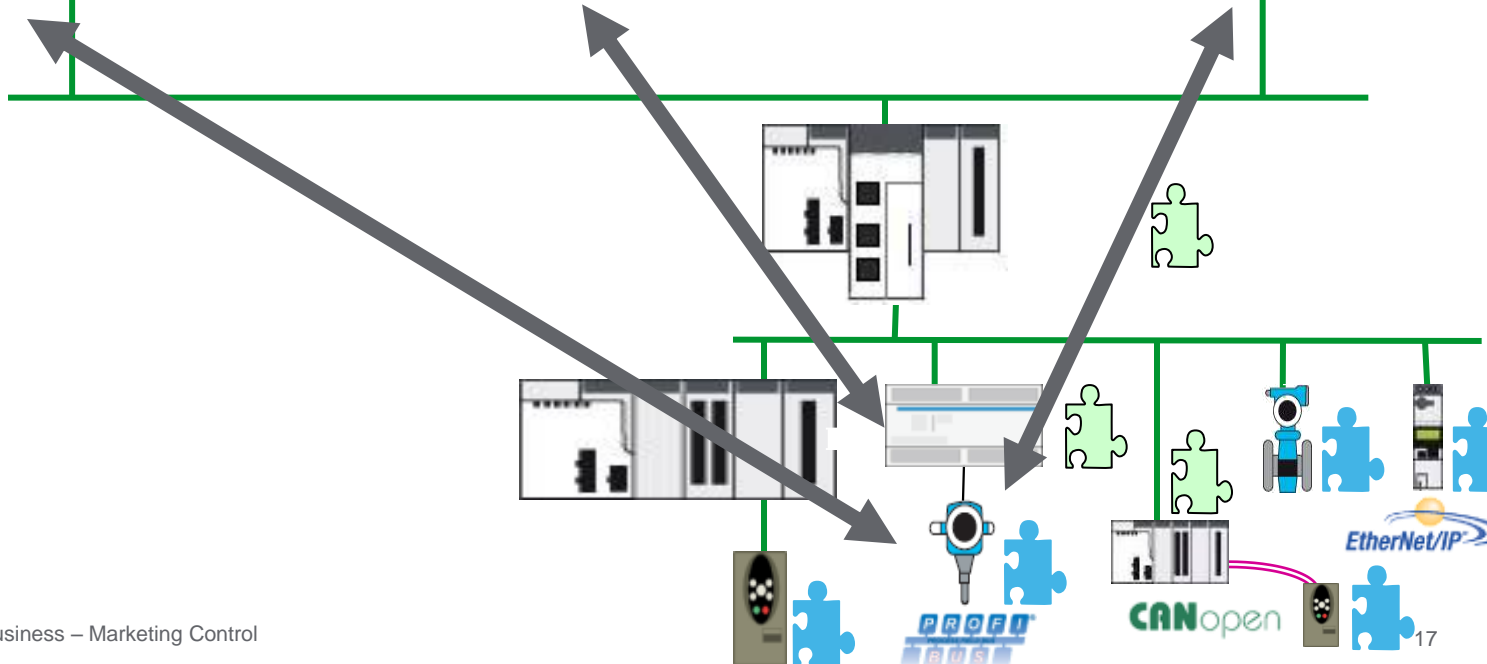
SCADA

Operating
Alarm reporting
Monitoring



Engineering Station

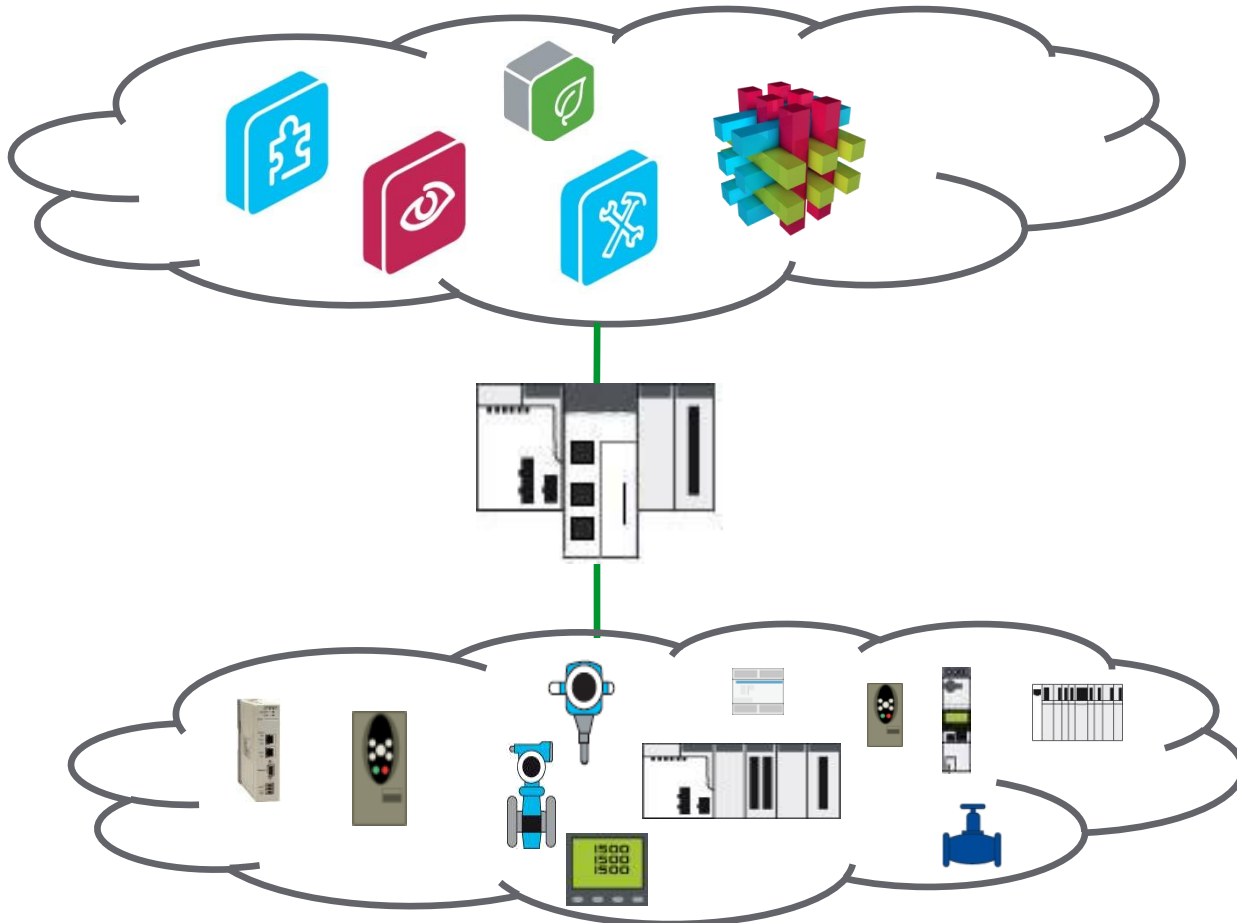
Configuration
Parameterization
Commissioning
Process variables



Digitize your plant



Major step toward utilizing the cloud



Modicon M580 ePAC

Innovative

Ethernet backbone
High-tech PAC
High precision

Sustainable

Secure investment

Easy & flexible

Design your architecture without constraints
Modify your process and architecture in run
Diagnose remotely

