Modicon Premium to Modicon M580

Upgrading your control system is easier than you think.

Challenges you may be facing:

- Risk of unexpected downtime due to aging equipment
- Multiple PLC platforms and programming software packages to support
- Preserving the investment in your existing system during an upgrade
- Reduction in skills and/or staff at your plant
- Limited scheduled downtime during upgrades

Benefits of upgrading to M340/M580 (X80 I/O):

- Minimum downtime and risk to upgrade — do it during planned maintenance
- Retain prior investment in software and field wiring
- Reduce unplanned downtime and enhance cybersecurity
- Productivity benefits from a new, more transparent, future-proof solution
- Supported by Schneider Electric global service and execution capabilities

From
Modicon Premium

To
Modicon M580

Or
Modicon M340

Solutions and services for a smoother modernization

- Extensive experience with successful Premium to ModiconTM M340 or M580 upgrades
- Automatic conversion of your Premium PL7 & Unity Pro Application into EcoStruxure Control Expert (formerly Unity Pro)
- Stepwise upgrades in phases to meet your budget and schedule
- Retain your existing I/O and racks if required
- Quick wiring solutions eliminate the time and risk of rewiring existing I/O

> "By upgrading the PLCs, we were able to make our systems work better. Schneider Electric bent over backwards to give us what we needed."
>
> Captain Zachary Yale, Sheriff's Office — Forsyth County, N.C.

Switch to Modicon M340 or M580

Replace CPU with Modicon M580 and retain application program with a conversion service. Choose the preferred I/O rack and wiring solution — partial, stepwise, or full:

Legacy CPU and I/O	Targeted CPU	Partial: Retain I/O racks and wiring	Stepwise: Change I/O racks, retain wiring	Full: Full replacement
Premium I/O (uses same Bus X as new I/O)	Modicon M580 / Modicon M340	☑	☑	☑

[1] Some applications may require minor adjustments

Automated efficiency

Repeatable, reliable processing — our high-quality software converters move you into Modicon M580

Minimal downtime

Typically one hour modernization time per eight-slot rack

Premium PL7 application conversion to Modicon M580

Automatic conversion[1] of PL7 & Unity Pro Applications to EcoStruxure Control Expert (formerly Unity Pro)	☑

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Modernization solutions for Premium PL7

Software upgrade to EcoStruxure Control Expert (formerly Unity Pro)

Our software converters make it fast and easy to upgrade your PL7 or Unity Premium application to the M580 platform:

- Retain the look, feel, and function of your legacy applications
- Build on them by adding programming sections using the latest programming languages, functions, objects, and libraries of EcoStruxure Control Expert (formerly Unity Pro)
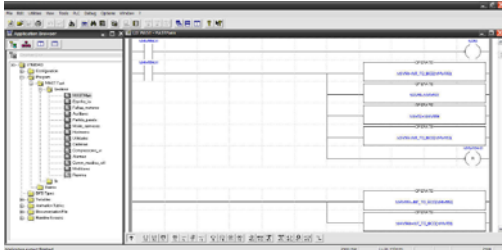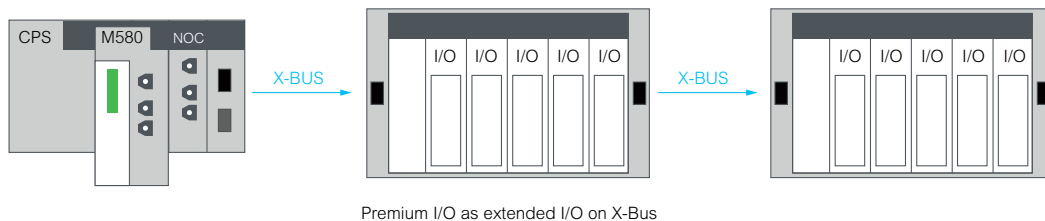

Before conversion
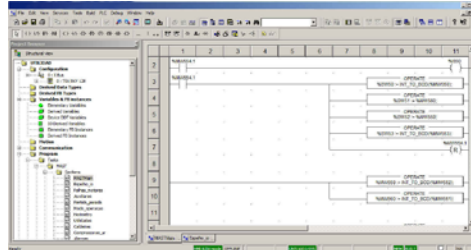
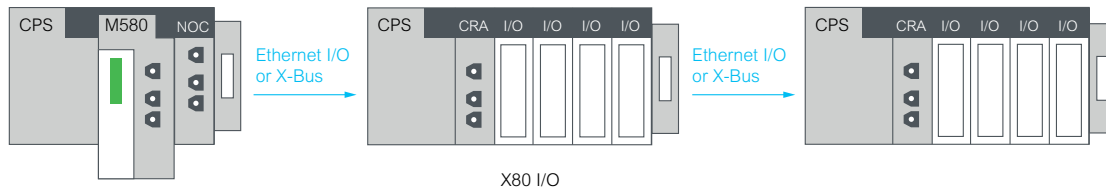After conversion

Hardware upgrade

Partial PLC upgrade to Modicon M580, retaining legacy I/O racks and wiring:

Premium I/O as extended I/O on X-Bus

Modicon M580 can manage Premium I/O via the same Bus X connection used with the original Premium configuration.

Total PLC upgrade to Modicon M580 and new X80 I/O while retaining field wiring:
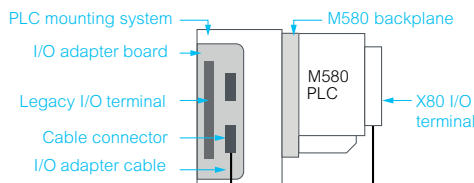

X80 I/O

Time-saving solutions

Our quick wiring adapters let you change out legacy Premium I/O while retaining the original field wiring:

Premium to X80 I/O

Wiring adapter

The I/O Wiring System adapts Legacy I/O Terminals to X80 I/O

Benefits

For software

- Retain your prior investment in Premium PLC programs
- Reduced risk and errors via automated software converter tools
- Reduced time to complete migrations
- Our certified modernization service experts can further refine the converted applications

For hardware

- Retain prior investment in racks and/or I/O field wiring
- Simplified modernization with no rewiring and reduced commissioning time
- Flexibility to upgrade in phases — helps address operational or budget constraints
- Easy to revert to original configuration should production demands dictate

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