

# PCS7 I/O upgrade

ET200M migration

siemens-energy.com



## Control systems that use the SIMATIC ET 200M peripheral system in SIMATIC PCS 7 should consider upcoming modernization plans.

Due to the SIMATIC ET 200M being phased out from 1 October 2023, an upgrade to the state-of-the-art SIMATIC ET 200SP HA peripheral system for process automation should be considered. Upgrading to SIMATIC ET 200SP HA offers the opportunity to implement next-generation technologies with all their advantages in brownfield projects. We offer the best and most cost-effective upgrade strategy customized to the customer's plant.

### Product life cycle

The SIMATIC ET 200M system family, part of the SIMATIC product portfolio, was available until 1 October 2023 (PM400). The product discontinuation came into effect on 1 October 2025 (PM410). With the product obsolescence, the components are now only available as spare parts planned until 1 October 2033.

## ET 200SP HA advantages

The greatest advantages with respect to brown field requirements are:

- New SIMATIC longterm PA-Periphery system
- Highest availability
- More signals at each station → less I/O stations in total
- Easy maintenance & short MTTRs
- Advanced diagnostics of device and network

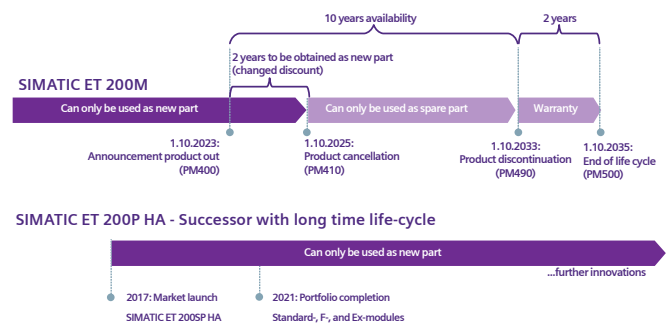


Figure 1 PLM explanation

## Upgrade requirements

Upgrading existing SIMATIC ET 200M stations in a plant requires detailed knowledge of the actual situation, careful planning and a strategy agreed with the customer. During planning, consideration must be given to whether the existing field bus can be converted to PROFINET. This depends on the PLC and must be considered.

Features depending on PLC hardware version	I/O Redundancy	Configuration in Run	Multi Hot Swap
<b>PCS 7 project (&gt;=V9.0)</b>			
CPU 410 V8H	✓	✓	✓
CPU 410 V7	✓	X	✓
<b>STEP 7 project (&gt;=V5.6)</b>			
CPU 410 V8H <sup>1</sup>	X	✓	✓
CPU 400 V7	X	X	✓

<sup>1</sup>Project specific version- Siemens AG has to grant permission to integrate

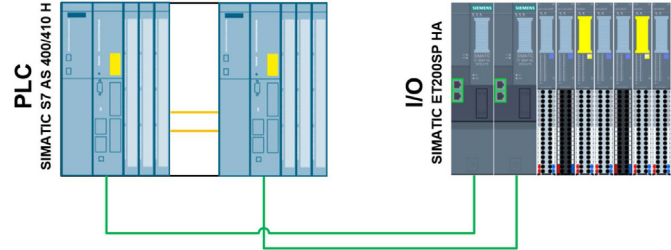


Figure 2 Profinet connection

## I/O rewiring

The SIMATIC ET 200M screw terminals must be rewired to the SIMATIC ET 200SP HA push-in terminals. To do this, the mounting rail must be exchanged. A minimum height of 264 mm must be available. To do this, it must be checked whether the existing layout of components in the cabinet can be shifted. If this is not the case, spacer bolts are screwed under the mounting rail to mount over the 80 mm high cable ducts. The total depth of the spacer including SIMATIC ET 200SP HA is 250 mm. It must be checked in advance whether the individual wires inside the cable duct have sufficient reserve to connect the higher installation. Loop checks after rewiring for verification are recommended.

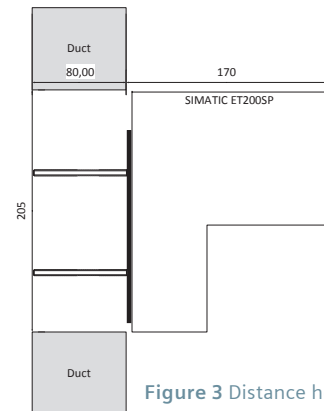


Figure 3 Distance holder

Published by  
Siemens Energy Global GmbH & Co. KG  
Transformation of Industry  
Siemenspromenade 9  
91058 Erlangen  
Germany

Published by  
Siemens Energy, Inc.  
Transformation of Industry  
4400 N Alafaya Trail  
Orlando, FL 32826  
USA

© Siemens Energy, 2026  
Siemens Energy is a trademark licensed by Siemens AG.

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract. All product designations may be trademarks or product names of Siemens Energy Global GmbH & CO. KG or other companies whose use by third parties for their own purposes could violate the rights of the owners.