



# PROFINET Industrial Ethernet Protocol Software

## PROFINET-INDUSTRIAL-COMMUNICATIONS-SOFTWARE

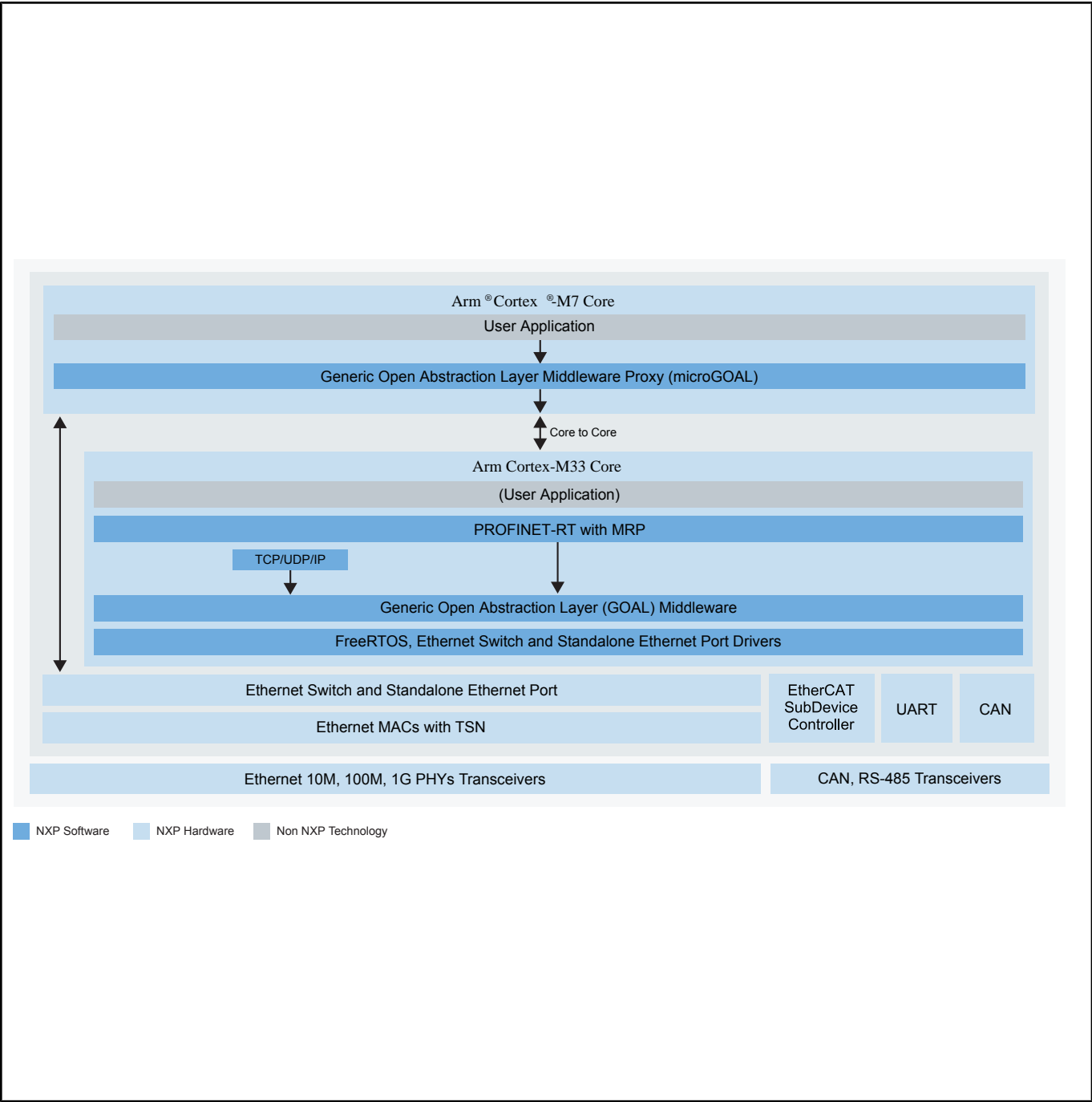
NEW

Last Updated: Dec 10, 2025

PROFINET is an advanced industrial Ethernet protocol designed for real-time automation and networking. Developed by PROFIBUS and PROFINET International (PI) as the successor to PROFIBUS, it supports real-time communication, integrates fieldbus systems and leverages IT standards like TCP/IP.

Standardized under IEC 61158 and IEC 61784, PROFINET enables reliable factory automation, robotics, motor drives, PLCs and remote I/Os. NXP offers certifiable PROFINET protocol software for industrial processors with features, such as media redundancy, diagnostics and evaluation binaries.

# PROFINET Industrial Communications Software Block Diagram



View additional information for [PROFINET Industrial Ethernet Protocol Software](#).

**Note:** The information on this document is subject to change without notice.

**[www.nxp.com](http://www.nxp.com)**

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.