

TJF1103: Industrial Ethernet 100BASE-T1 PHY Transceiver



TJF1103 is the third-generation product of NXP's successful family of 100BASE-T1 Ethernet PHYs. It is perfectly suited to support the rapid expansion of Ethernet in the industrial space.

TJF1103 complies with all state-of-the-art conformance test specifications and is designed according to the QM requirement, providing enhanced monitoring and diagnostic features.

Key features

- Functional safety QM compliant
- IEEE 802.3bw compliant 100BASE-T1 PHY
- OPEN Alliance TC-1 advanced PHY features
- IEEE 1588v2/802.1 AS compliant time stamping

- OPEN Alliance TC-10 compliant sleep/wake up
- Single supply capability
- HVQFN36 (6 mm x 6 mm) with wettable flanks
- Optimized for industrial use cases
- Includes startup self test
- Supports -40°C to 125°C temperature grade

Target Applications

- Industrial automation
- Energy management
- Building automation
- Robotics
- Transportation

[nxp.com/TJF1103](https://www.nxp.com/TJF1103)

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. Arm is a trademark or registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.