

TJF1120: Industrial Ethernet 1000BASE-T1 PHY Transceiver



TJF1120 is the industrial single pair version of NXP's successful family of 1000BASE-T1 Ethernet PHYs. It is perfectly suited to support the rapid expansion of Ethernet in the industrial space.

TJF1120 complies with all state-of-the-art conformance test specifications and is designed according to the QM requirement, providing enhanced monitoring and diagnostic features to meet a wide range of different applications.

Key features

- IEEE 802.3bp compliant 1000BASE-T1 PHY
- Quality managed
- OPEN Alliance TC-1 advanced PHY features
- Support for Power Over Dateline (PoDL)

- IEEE 1588v2/802.1 AS compliant time stamping
- OPEN Alliance TC-10 compliant sleep/wake up
- HVQFN36 with wettable flanks
- Optimized for industrial use cases
- Includes startup self test
- Supports -40°C to +105°C temperature grade

Target applications

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