

TJF1410: 10BASE-T1S PMD transceiver for industrial applications

TJF1410 is NXP's 10BASE-TIS Open Alliance TC14 compliant PMD transceiver. It is a small footprint solution for communication over the Open Alliance TC14 standardized 3-pin interface.

TJF1410 complies with all OA TC14 conformance test specifications applicable to a PMD transceiver and supports OA TC14 topology discovery and TC14-TC10 remote wake-up. It is specifically designed to achieve low quiescent currents for reduced power consumption in low power mode. The device can be used in bus connections up to 32 10BASE-TIS nodes. It can also be used for up to 100 m of bus cabling. The device Is fully compatible with power over data line implementation.

Key features

- · Compliant to
 - IEEE 802.3cg, OA TC14 PMD specification
- OPEN Alliance TC-14 topology discovery
- Proven EMC performance
- Low footprint HVSON8 (3 mm x 3 mm) package
- · Low quiescent current
- TC10-TC14 local and remote wake-up support
- Compatible with power over data line
- Supports up to 32 nodes
- Supports up to 100 m of cabling



Target industrial applications

- · Industrial networking devices
- · Motor drives
- PLC and remote IO
- · Mobile robotics

For additional information and sample availability, contact your local sales office or visit nxp.com/TJF1410