

TJA1410 –ASIL B Compliant 10BASE-T1S PMD Transceiver



TJA1410 is the first 10BASE-T1S product in NXP's portfolio of solutions for this multidrop Ethernet technology. It is made for best-in-class EMC performance within the car. It is a small footprint solution with communication over the simple 3-pin interface standardized in the Open Alliance TC14.

TJA1410 complies with all the state-of-the-art conformance test specifications and is designed according to ISO 26262 to meet ASIL B, for meeting system functional safety requirements. It supports OPEN Alliance TC14-TC10 remote wake-up over the Ethernet data line. It is specifically designed to achieve low quiescent currents for reduced power consumption when idle.

KEY FEATURES

- Compliant to IEEE802.3cg, OA TC14 PMD specification
- Functional safety ISO 26262 ASIL B compliant
- OPEN Alliance TC-14 topology discovery
- Best-in-class EMC performance in car
- Low footprint HVSON8 (3 x 3 mm) package
- Low quiescent current
- Local and remote wake-up support

AUTOMOTIVE TARGET APPLICATIONS

- Interior lighting
- Exterior lighting
- Body control
- X-by-wire
- Parking sensors

For additional information and sample availability, contact your local sales office or visit <https://www.nxp.com/TJA1410>

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