

## New Product Announcement

### Now at Mouser: Texas Instruments' DP83TD510E Ethernet PHY for Building and Factory Automation

**April 15, 2021** – [Mouser Electronics](#), Inc., an authorized global distributor of [Texas Instruments](#) (TI) solutions, is now stocking the TI [DP83TD510E](#) Ethernet physical layer (PHY). Featuring an extended cable reach of more than 2 km, the IEEE 802.3cg 10BASE-T1L-compliant transceiver eliminates the need for additional protocols, gateways and cables for higher-bandwidth communications, allowing designers to extend the reach of their industrial [communications](#) and automation applications without increasing cabling costs or system weight.

The [TI DP83TD510E](#) Ethernet PHY, available from Mouser, is capable of transmitting 10-Mbps Ethernet signals up to 1.7 km through a single pair of twisted wires. The extended cable reach of the DP83TD510E is 1.5 km more than the 200-m requirement of the IEEE 802.3cg 10BASE-T1L single-pair Ethernet specification. The device includes integrated cable diagnostic tools with built-in loopback and self-test capabilities, simplifying design and debugging processes.

The PHY offers a very low-noise, coupled receiver architecture, allowing for extended cable reach and low power dissipation. The high-performance device offers ultra-low-power consumption of less than 38 mW at 1 V p2p. The DP83TD510E features external MDI termination to support intrinsic safety requirements, and it supports RMII back-to-back mode for applications requiring cable reach beyond 2,000 meters.

For more information on the DP83TD510E Ethernet PHY, visit <https://www.mouser.com/new/texas-instruments/ti-dp83td510e-ethernet-phy/>.

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### **About Mouser Electronics**

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