

New Product Announcement

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

April 15, 2021 – [Mouser Electronics](http://www.mouser.com), Inc., an authorized global distributor of [Texas Instruments](http://www.ti.com) (TI) solutions, is now stocking the TI [DP83TD510E](http://www.ti.com) 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](http://www.ti.com) 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/>.

With over 50,000 TI products, including over 4,500 development kits, Mouser offers the broadest portfolio of the newest Texas Instruments semiconductor solutions, adding new products every day. To learn more about the latest TI products available from Mouser, visit <https://www.mouser.com/manufacture/texas-instruments/>.

As a global authorized distributor, Mouser offers the world's widest selection of the newest semiconductors and electronic components — in stock and ready to ship. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each of its manufacturer partners. To help speed customers' designs, Mouser's website hosts an extensive library of technical resources, including a [Technical Resource Center](#), along with product data sheets, supplier-specific reference designs, application notes, technical design information, engineering tools and other helpful information.

About Mouser Electronics

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