



New Product Announcement

Mouser Now Shipping TI's Space-Saving, Low-Power DP83TC811S-Q1 Transceiver for Automotive Electronics and ADAS Applications

August 8, 2018 – [Mouser Electronics](#), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the [DP83TC811S-Q1](#) transceiver from [Texas Instruments](#) (TI). The AEC-Q100 qualified DP83TC811S-Q1 is an automotive Ethernet physical layer (PHY) transceiver that allows designers to introduce increased intelligence to [automotive](#) applications through Ethernet connectivity. The first 100BASE-T1 device to support serial gigabit media independent interface (SGMII), the DP83TC811S-Q1 is suitable for use in automotive body electronics, [infotainment](#) and [cluster](#), and [advanced driver assistance systems](#) (ADAS) applications.

The [TI DP83TC811S-Q1](#), available from Mouser Electronics, is a 100-Mbps single-pair Ethernet PHY transceiver with SGMII, which improves design flexibility by enabling connections to multiple switches and interfaces. The transceiver features [low power](#) consumption, which reduces thermal dissipation, allowing less space required between components. The robust DP83TC811S-Q1 transceiver also includes a physical medium dependent (PMD) filter and termination, MII terminators and power-supply filtering components, reducing the need for external circuitry. Because of this high level of integration, developers gain more space to incorporate additional features, allowing for flexible design of high-performance automotive applications.

The TI DP83TC811S-Q1 automotive transceiver features an integrated diagnostic toolkit, incorporating test modes and debug tools through a number of real-time monitoring functions. The diagnostic toolkit includes cable diagnostics, temperature and voltage [sensors](#), and an electrostatic discharge (ESD) monitor, facilitating designs that can withstand [high-voltage](#) faults and ESD events.

The DP83TC811S-Q1 transceiver is compliant with the IEEE 802.3bw standard and OPEN Alliance qualification, enabling the use of unshielded single twisted-pair copper cable, which reduces overall cable weight and cost. The device's small 6mm x 6mm wettable flank package enables a 50-percent smaller solution size while also allowing a visual indicator of solderability to lower inspection time.

To learn more, visit www.mouser.com/ti-dp83tc811sq1-transceivers.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

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