The KD9351 integrated Fiber Optic Transceiver (FOT) complements the KD1053 IC, providing competitive pricing for EMC critical or galvanic isolated critical links in automotive networks. Optimized for low power, reduced BOM and a small footprint, the KD1053 and KD9351 devices are targeted for automotive applications that use optical Ethernet over Plastic Optical Fiber (POF) for the communications in vehicle data networks. Interconnection of infotainment and Advanced Driver Assistance Systems (ADAS) ECUs are two of the key applications where POF is the best choice.

**OVERVIEW**

The KD9351 is a Fiber Optic Transceiver that implements the Physical Medium Dependent Sublayer (PMD) of a 1000BASE-RHC PHY, compliant with the specifications of IEEE Std 802.3bv™-2017 standard for gigabit optical communications over POF. The KD9351 connects with the KDPOF KD1053 transceiver, which implements a Physical-Coding Sublayer (PCS) and a Physical Medium Attachment (PMA) sublayer, to form a complete automotive 1000BASE-RHC physical layer. With its integrated EMC shielding, the KD9351 transceiver guarantees the highest component-level EMC compliance without the need for any external additions. It can operate either at 1 Gb/s or 100 Mb/s.