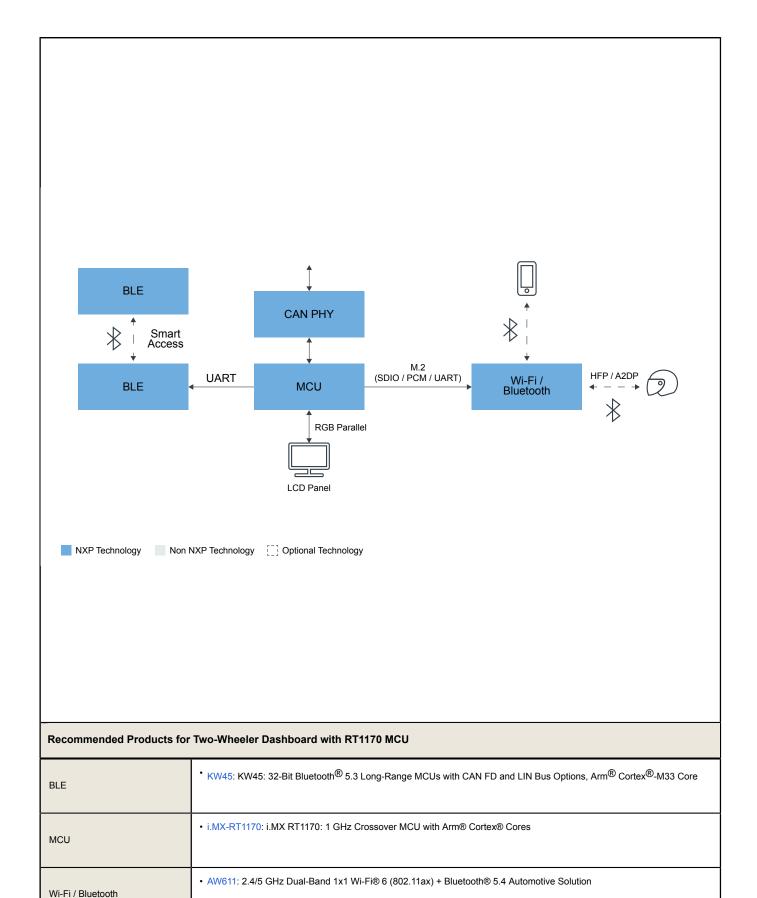


Two-Wheeler Digital Connected Cluster

Last Updated: Feb 26, 2025

The two-wheeler connected digital cluster reference platform delivers high-performance graphics and a rich connectivity experience for an advanced two-wheeler driving experience. It enables three-way Bluetooth pairing between the phone, the two-wheeler's digital cluster and the rider's headphones for advanced connectivity, safety and personalized services. Other features include OpenVG vector graphics and a rich multimedia experience with secure vehicle access and vehicle location. By pairing NXP's high performance i.MX RT1170 crossover MCU with the highly integrated AW611 single-chip Wi-Fi® 6 and Bluetooth®/Bluetooth Low Energy Audio connectivity solution together with the KW45 secure wireless access MCU, our better together reference platform delivers a highly cost-effective system. This platform extends connected and intelligent digital experiences beyond vehicles — delivering the future of two-wheel mobility.

Two-Wheeler Dashboard with RT1170 MCU Block Diagram



• TJA1044: High-Speed CAN Transceiver with Standby Mode - Mantis Family

CAN PHY

View our complete solution for Two-Wheeler Digital Connected Cluster.

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.