

### Part Number: APGRD004 - Automotive Ambient Lighting Module Reference Design



The Automotive Ambient Interior Lighting Module Reference Design demonstrates microcontroller-based control of RGB LED devices. This module can be controlled remotely by a master body controller via a LIN bus. These modules are offered in a very compact form-factor board and comprise of a PIC12F615 MCU, an MCP2021 LIN transceiver/voltage regulator, and RGB LED. LIN commands are interpreted by the module to control color mixing (16,383 colors) and intensity (1023 levels). The kit ships with 4 modules to assign as lighting zones in a LIN or J2602 network. These modules can also be used in conjunction with the APGDT001 LIN Serial Analyzer to quickly create a working LIN network straight out of the box.