The Ignition Node Module (IGNM) contains the customer interface for the vehicle ignition switch activation. The IGNM interfaces with the FOBIK by way of LF and interfaces with the Radio Frequency Hub Module (RFHM) via KIN LINE using LIN 2.1 base protocol for Immobilizer activation. Additionally, the IGNM communicates ignition switch status – Key-In, Accessory, RUN, and Start to the RFHM via the KIN LINE. The RFHM then communicates the ignition switch status to the rest of the vehicle over the CAN C bus. The IGNM prevents the rotation of the ignition switch to the Lock/OFF position when commanded via the KIN LINE by the RFHM. The IGNM module does not contain any CAN driver components, only LIN 2.1 base protocol to communicate directly to the RFHM.

The IGNM module provides the following functions:

1. FOBIK Validation and Vehicle Immobilization.
2. Provide the ignition Run-Start signal to the RFHM module when the Ignition switch is in RUN or START position.
3. Provide ignition switch status and immobilizer data via KIN LINE to the RFHM.
4. Prevents the rotation of the ignition switch to the Lock/OFF position when commanded via the KIN LINE by the RFHM.