

### **Operational Description for the LMX9820A Bluetooth Module.**

The National Semiconductor LMX9820A Bluetooth module used in the 032B0206 board is used to transmit serial data at 115,200bps to an external Bluetooth device. The connections include Power, Ground, Transmit, Receive, Clear to Send, Ready to Send, Host Wakeup, Power down, and ENV0, a control signal to switch the radio into configuration mode. The antenna used is a Tyco surface mount, embedded 4.5db antenna, (p/n 1513150-1). The Bluetooth module is a frequency hopping device with 79 hopping frequencies.

The Syn-tech Systems 032B0206 Bluetooth transceiver Board is mounted externally to a 032B0100 Personal Digital Assistant powered by an Arm9 based Dragonball processor.