Sample Applications for Remote Data Acquisition

- Home security systems
- Traffic management
- Monitoring of structural integrity (i.e., bridges, buildings, etc.)
- Automotive (wireless CAN)
- Smart dust
- Remote meter reading (i.e., parking, utilities, etc.)

Circuit Diagrams for IR Transmitters

- Photodiode
- 5V
- LED
- CD4081BEX
- 5V
- IR Transmitter 1 (contains internal timer)
- IR Transmitter 2 (requires external timer)

Circuit Diagram for RF Transmitter

- Vcc
- DATA IN
- GND
- TX418AT
- SAW OSCILLATOR
- HARMONICS FILTER
- GND
- ANTI

Data Flow Diagram for Transmitter

- keypad
- keypadData
- User Input
- dipSwitch
- dipSwitch
- svar2sci
- sciDataOut
- sciT
- mpwm
- Pulse Width Modulator
- IR/RF Transmitter