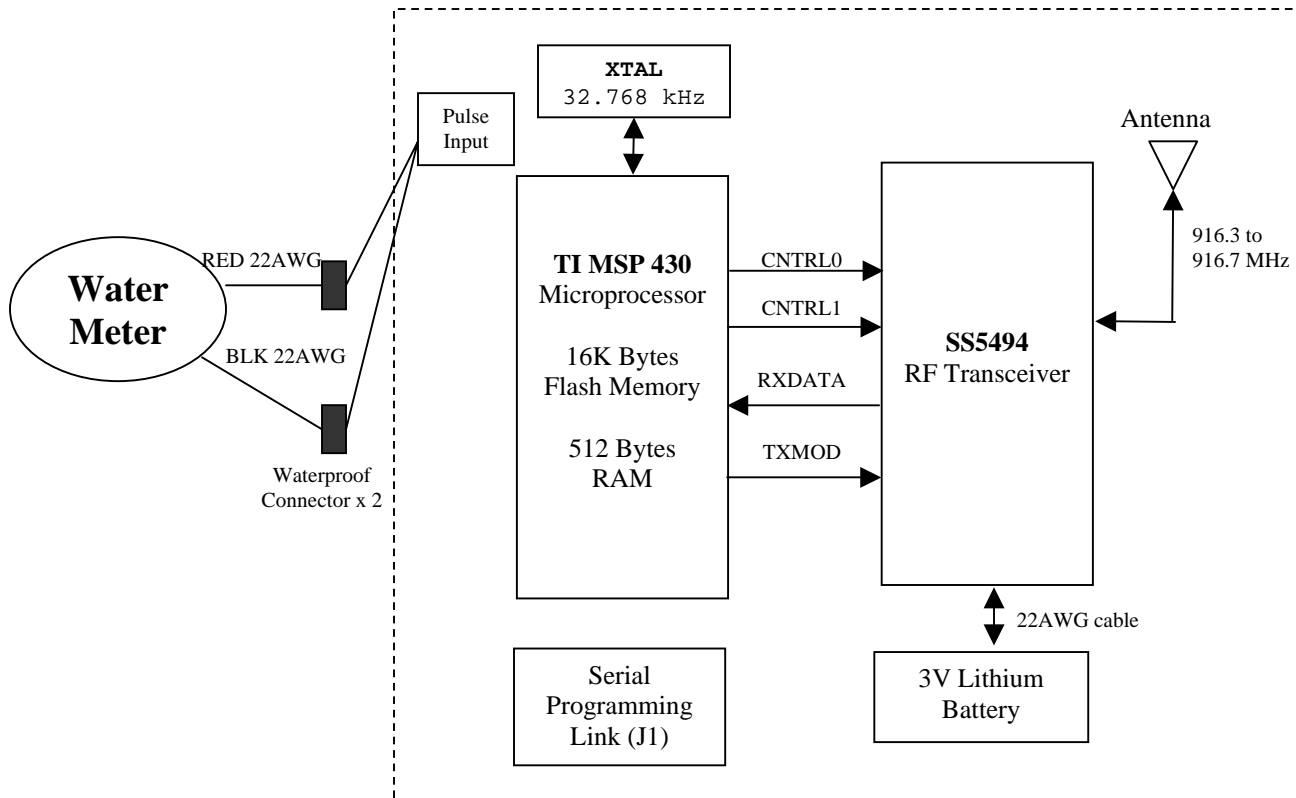# Water Meter Interface
Block Diagram and Component Description

The TI MSP430 Microprocessor detects the pulses from the water meter and sends the total count to the site controller via the SS5494 Transceiver.

The SS5494 Transceiver and the Antenna provide the RF communication link between the water meter interface and other devices within the Network.

The Serial Programming Link (J1) provides capability to load Application (Operational) Program Data and Device Identification and Address Information into the Microprocessor.

The two 3V Lithium Battery provide power for the water meter.

An antenna, with an impedance range of 35 to 72 ohms resistive, along with a series matching coil and a shunt matching/ESD protection coil, is internally mounted on the Water Meter Interface printed circuit board to provide RF signal reception and transmission:

10nH

1.5pF

SS5494
Chip

18nH