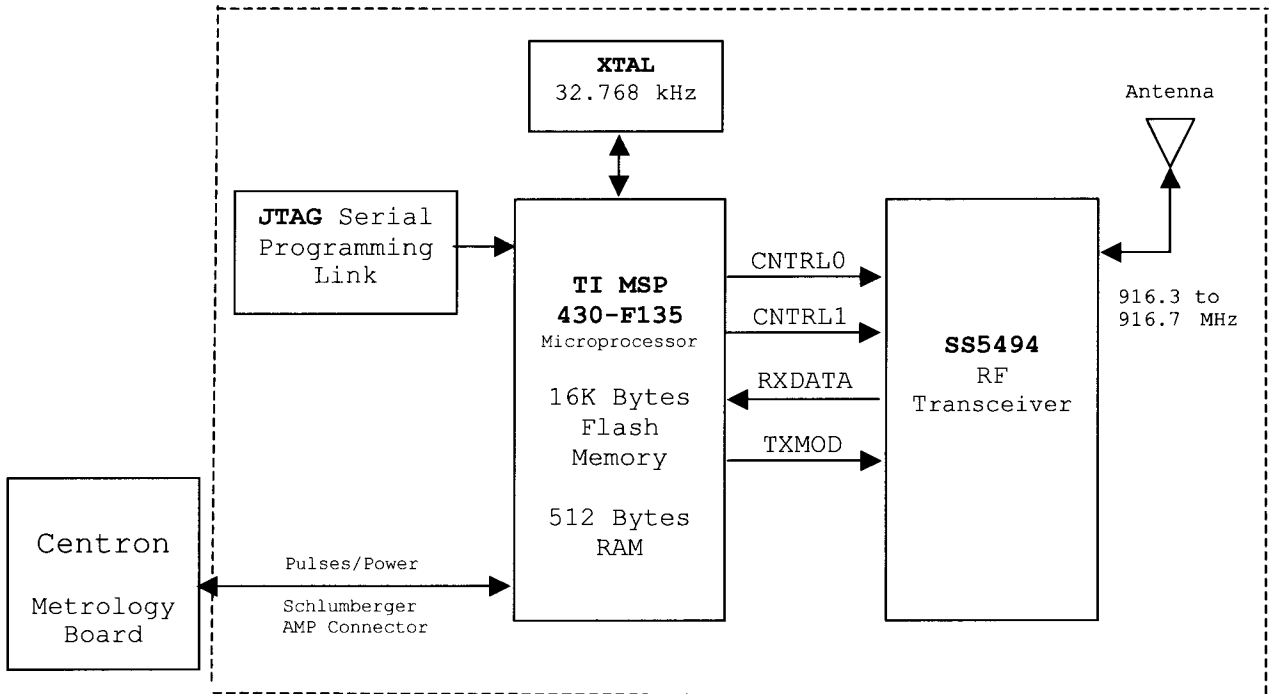




2859 Paces Ferry Road, Suite 700, Atlanta, Georgia 30339, (404) 252-5512

Centron Meter Interface Block Diagram and Component Description



The TI-MSP 430 Microprocessor responds to commands received from the Site Controller via the SS5494 RF Transceiver. A "Read Status" command from the Site Controller results in the Microprocessor sending the current meter count to the Site Controller along with a Status Byte that reflects the value of its Retry Counter and Power failure notification.

The MS1V-TK 32.768 kHz low frequency crystal provides the reference clock frequency for microprocessor operation.

The TI JTAG Serial Programming Link provides capability to load Application (Operational) Program Data and Device Identification and Address Information into the TI MSP430 series Microprocessor.

The SS5494 RF Transceiver and the Antenna provide the RF communication link between the 200174 CENTRON Meter Interface and other devices within the Network.

The antenna, with complex impedance, is matched to 50 ohms by a series capacitance and a shunt inductor ESD protection coil, is mounted on the 200174 Centron Meter Interface circuit board assembly to provide RF signal reception and transmission.

In addition, there is also a series inductor of 10nH to match the SS5494 radio chip to 50 ohms.

The following diagram shows the StatSignal chip matched to 50 ohms at point A by the 10nH inductor and the complex impedance at point B:



2859 Paces Ferry Road, Suite 700, Atlanta, Georgia 30339, (404) 252-5512

