

Product: 29EC

1.1. Technical description of apparatus

1.1.1. Block diagrams

Refer to the block diagram in figure 5. 29EC is a simple amplifier driving a resonant choke that acts as a magnetic antenna. A signal provided at the input is boosted by the transistor stage and fed to a resistor, capacitor and the choke connected in series. The capacitor is chosen to tune out the inductance of the choke and the resistor limits the current. The choke is mounted off the PCB to increase the resulting magnetic field.

The DC power supply comes from a switched output on the 14RC ECU. After a short stabilisation period a 125kHz. drive signal is transmitted. The drive signal is on-off keyed to transmit data to the wheel sensors.

Figure 4: Block schematic of the system

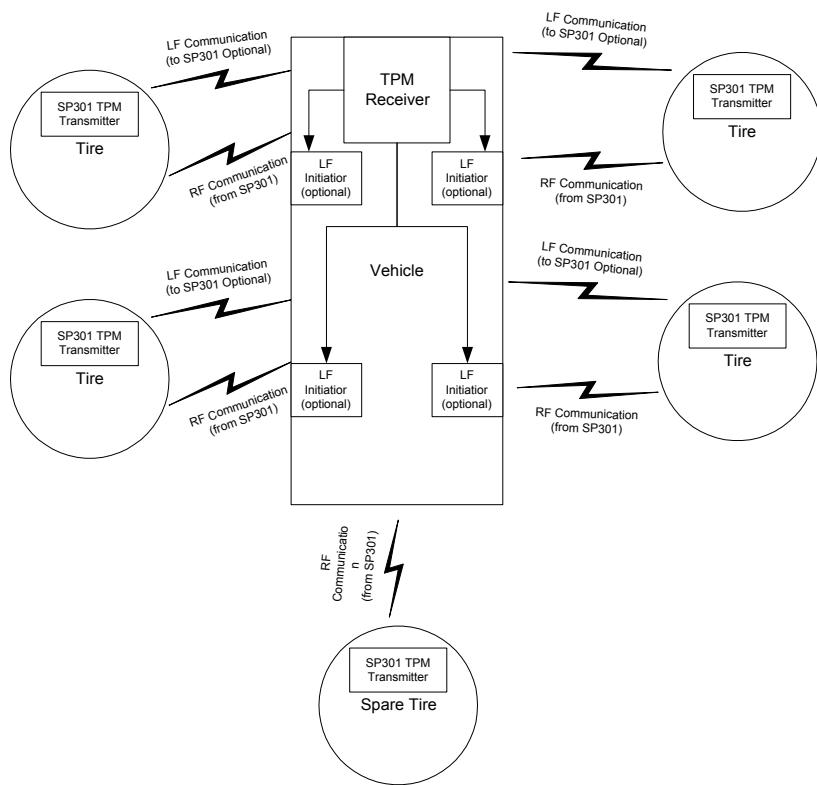


Figure 5: Block diagram of 29EC initiator

