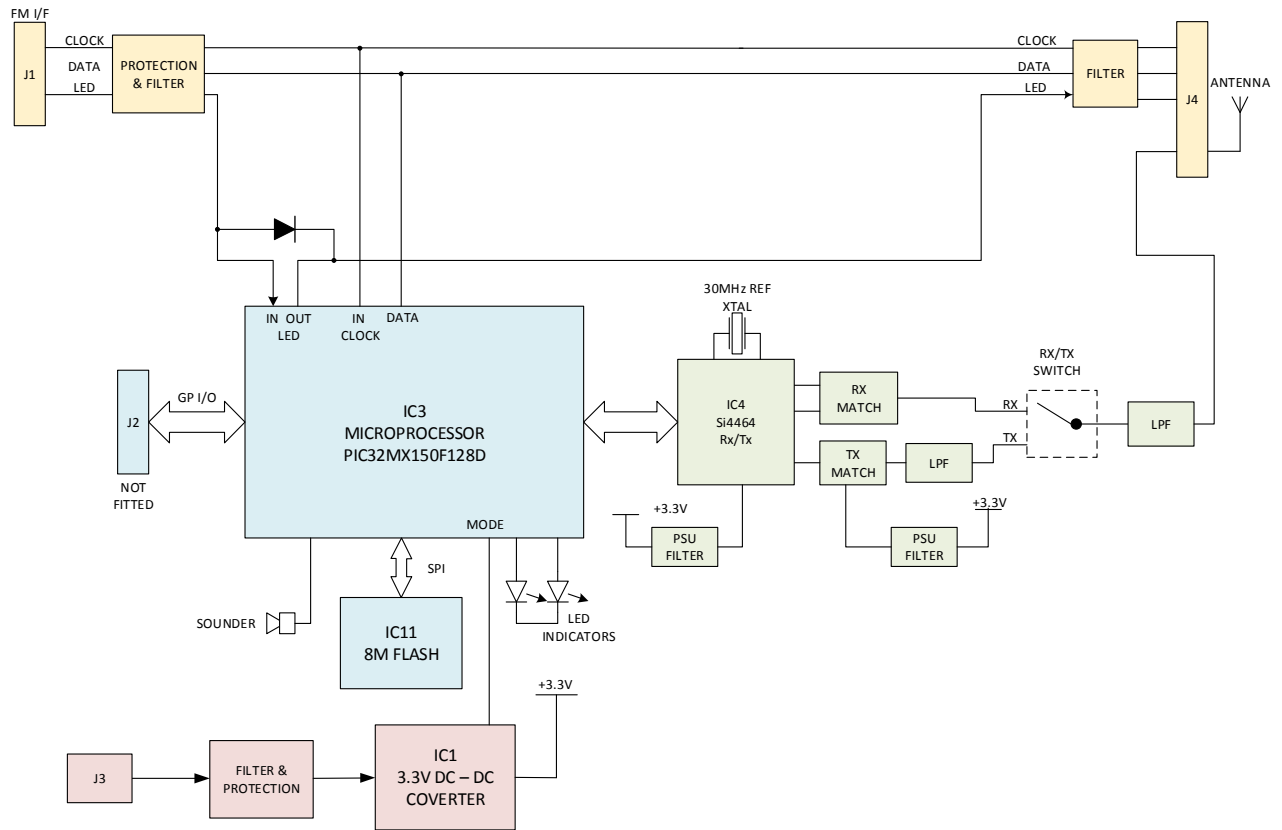


Exhibit 4: Block Diagram Pico Base Station

Block Diagram of PBS Circuit



The circuit design comprises the following main circuit elements:

- Power supply protection and buck converter – convert vehicle supply to 3.3V
- Microchip PIC32 32-bit microcontroller – this controls the design and provides the PBS functionality
- SiLabs Transceiver – highly integrated RF transceiver operating at 915MHz
- RF Filters and Switch – Rx and Tx filters necessary to meet ETSI standards
- Code Plug communications filtering and protection – allow direct communications between FM OBC and Code Plug and allows PBS to directly communicate with FM OBC