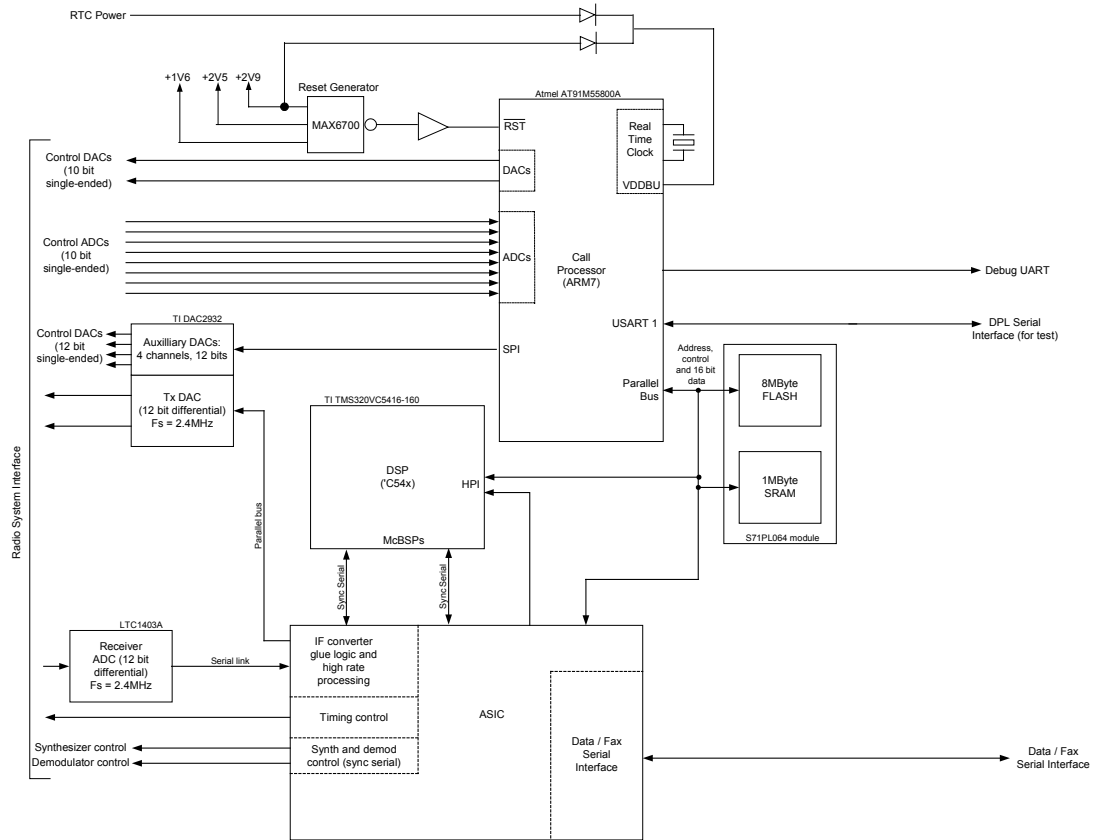


Figure 3: Baseband and Digital Block Diagram



6.1 Call Processor

The call processor (CP), an Atmel AT91M55800A, is the master system processor. It has control of the frame timing: the DSP and all other devices operate as slaves to the CP. The CP device includes not only the processor core, but also the following components in the same part:

- 8k byte of static RAM,
- a power management controller and clock generator block,
- a real time clock (RTC),
- a watchdog timer,
- an interrupt controller,
- three asynchronous serial ports,
- a timer-counter block,
- an SPI interface,
- eight channels of ADC, and