

Circuit Description: Colorado Class Clocks

The ARM9 processor acts as the primary processing device. This chip manages most off-unit communications and controls memory storage devices and the LCD display and manage the systems real-time clock.

The ARM9 uses the 8051 processor as a slave device to control other onboard peripherals such as a matrix scan of the keypad, USB slave port, and buzzer.

The 8051 also communicates with the TI7960 RFID decoder chip, which manages the front-end analog components and digital decoding of the RFID block using the Texas Instruments reference design.