

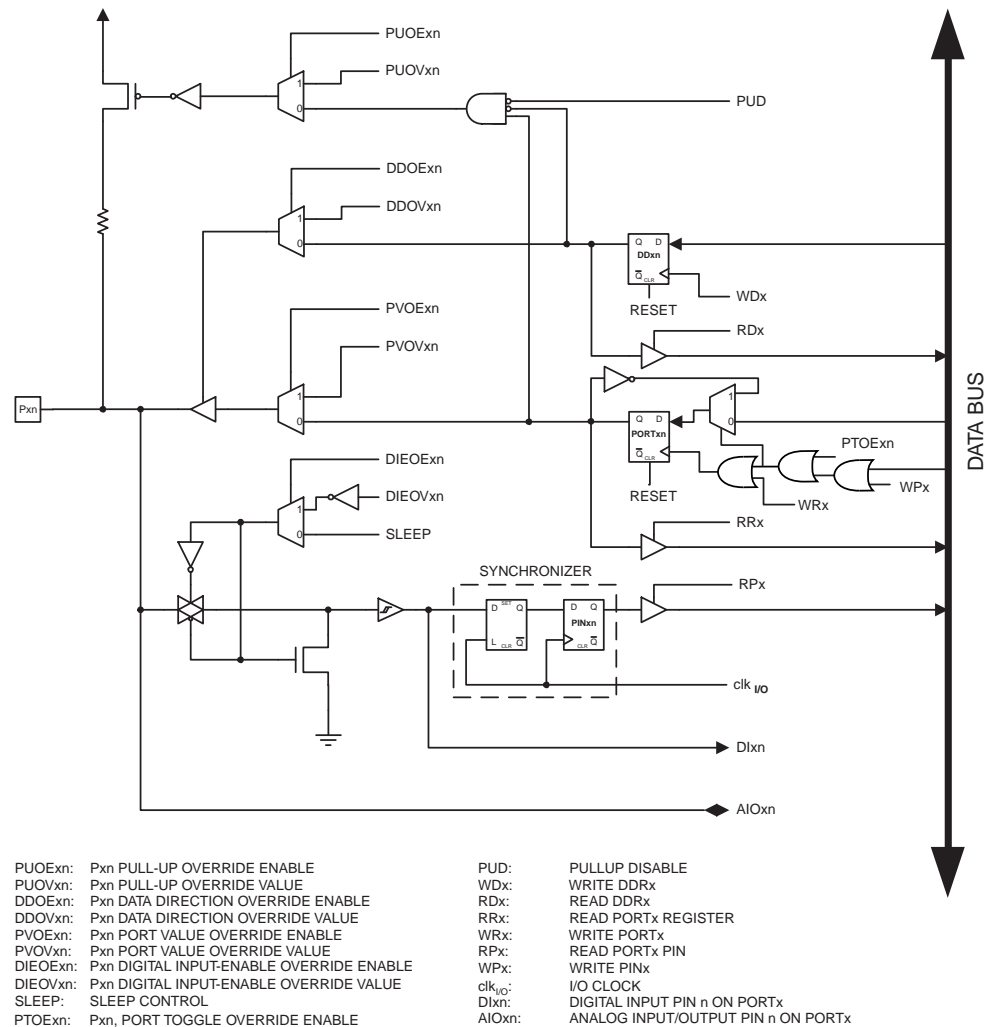
ing inputs should be avoided to reduce current consumption in all other modes where the digital inputs are enabled (Reset, Active mode and Idle mode).

The simplest method to ensure a defined level of an unused pin, is to enable the internal pull-up. In this case, the pull-up will be disabled during reset. If low power consumption during reset is important, it is recommended to use an external pull-up or pull-down. Connecting unused pins directly to V_{CC} or GND is not recommended, since this may cause excessive currents if the pin is accidentally configured as an output.

11.3 Alternate Port Functions

Most port pins have alternate functions in addition to being general digital I/Os. Figure 11-5 shows how the port pin control signals from the simplified Figure 11-2 on page 76 can be overridden by alternate functions. The overriding signals may not be present in all port pins, but the figure serves as a generic description applicable to all port pins in the AVR microcontroller family.

Figure 11-5. Alternate Port Functions⁽¹⁾



Note: 1. WRx, WPx, WDx, RRx, RPx, and RDx are common to all pins within the same port. clk_{I/O}, SLEEP, and PUD are common to all ports. All other signals are unique for each pin.