

The diagram shows the ATMEGA16M1 microcontroller (U2) with the following connections:

- VCC (pin 4):** Connected to +5V.
- AVCC (pin 19):** Connected to +5V.
- AREF (pin 21):** Connected to ground.
- AGND (pin 20):** Connected to ground.
- GND (pin 5):** Connected to ground.
- RESET (pin 31):** Connected to a 10K resistor (R3) and ground.
- Crystal (C4, C5):** A 16 MHz crystal connected to pins 10 (Y1) and 11 (Y2).
- Other pins:** Pins 1, 2, 3, 6, 7, 12, 13, 14, 15, 16, 17, 18, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 are shown but not connected to any external components.

The chip is labeled 'ATMEGA16M1' and 'U2'. The crystal is labeled '16 MHz CRYSTAL'.

The diagram shows a PIC microcontroller connected to an FT232RL module (U? FT231XS) via its UART pins. The PIC's VCCIO pin (pin 3) is connected to the module's VCCIO pin (pin 15), which is also connected to a 3V3_FTDI supply. The PIC's TXD pin (pin 20) is connected to the module's RXD pin (pin 4). The PIC's RXD pin (pin 18) is connected to the module's TXD pin (pin 2). Both TXD and RXD lines include pull-up resistors (R?) to +5V. The PIC's CTS pin (pin 9) is connected to the module's CTS pin (pin 7). The PIC's DTR pin (pin 1) is connected to the module's DTR pin (pin 6). The PIC's DSR pin (pin 7) is connected to the module's DSR pin (pin 4). The PIC's DCDC pin (pin 8) is connected to the module's DCDC pin (pin 5). The PIC's RT pin (pin 19) is connected to the module's RT pin (pin 17). The PIC's BUS0 pin (pin 16) is connected to the module's BUS0 pin (pin 16). The PIC's BUS1 pin (pin 17) is connected to the module's BUS1 pin (pin 17). The PIC's BUS2 pin (pin 18) is connected to the module's BUS2 pin (pin 18). The PIC's BUS3 pin (pin 19) is connected to the module's BUS3 pin (pin 19). The PIC's RESET pin (pin 14) is connected to the module's RESET pin (pin 14). The PIC's USBDM- pin (pin 12) is connected to the module's USBDM- pin (pin 12). The PIC's USBDM+ pin (pin 11) is connected to the module's USBDM+ pin (pin 11). The PIC's LED_Rx pin (pin 1) is connected to the module's LED_Rx pin (pin 1). The PIC's LED_Tx pin (pin 2) is connected to the module's LED_Tx pin (pin 2).