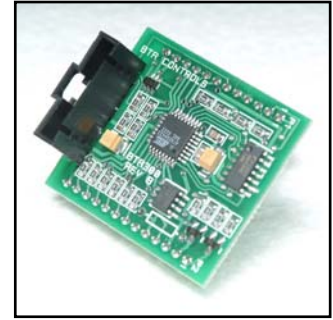


EMBEDDED CONTROLLER MODULE

AVAILABLE FOR OEM'S INVOLVED IN THE DEVELOPMENT AND PRODUCTION OF LOW VOLUME CUSTOM CONTROLS. THIS STANDARD PLUG-IN CONTROL MODULE WILL SAVE YOUR COMPANY BOTH PRODUCT DEVELOPMENT TIME AND COST.



Inputs

- Six A/D (CH1-CH6)
 - 10 bit
 - 4.096 volt reference
 - RC noise filters & diode spike protected
 - Can also be used as general purpose digital input or output
- Two dedicated interrupts for high-speed quadrature encoder (CHA, CHB)
 - Schmitt trigger buffers
 - Diode spike protected
 - Can also be used as general purpose interrupt inputs
- Two dry contact (SW1, SW2)
 - Contact closure > 10 ms
 - Schmitt trigger buffers
 - Diode spike protected
 - Can also be used as general purpose inputs

Outputs

- Four transistor
 - NPN open collector – 2N3904 (FM3904)
 - Max voltage (V_{ce0}) = 40 volt
 - Max current (I_c) = 200 ma
- Port to drive remote LCD display
 - 3 ½, 4 or 4 ½ LCD
 - BTR LCD module available
 - Remote – max 50 feet
 - Driver IC for noise immunity

Communication

- RS485 serial (A, B & Gnd)
 - B – normal, A – inverted, Gnd – through a 100 ohm, ¼ watt resistor
 - Max – 4000 feet

Features

- RISC processor – [Atmel ATmega8](#)
- 3.6864 MHz crystal oscillator
- Serial programming port
- Brown-out protection
- Power: 5 volt $\pm 1/4$ volt
- Flash memory: 8K bytes
- SRAM: 1024 bytes
- EEPROM: 512 bytes
- Plug-in design
- Development system available