# Ferro Tec

FTCP1200-00 Programmable Bipolar Temperature Controller

FEATURES AND BENEFITS

- HIGH POWER H-BRIDGE CIRCUIT

- SENSOR COMPATIBILITY: THERMISTOR, RTD, SEMICONDUCTOR, AND THERMOCOUPLE, IF USED WITH AN AMPLIFIER

- DATA INTERFACE: UART, I2C, ICSP, AND USB

- INTEGRATED RESET BUTTON

- PROGRAMMABLE FEEDBACK LOOPING

- DRIVER CHANNELS: 1

- DIGITAL I/O PINS: 14 (3 USED FOR H-BRIDGE CONTROL)

- ANALOG I/O PINS: 8

- AVAILABLE WITH SCREW TERMINALS OR SOLDERABLE PADS

- USER-PROGRAMMABLE CONTROL MODES

- CUSTOM SOFTWARE-PROGRAMMABLE ALARMS

- FERROTEC SAMPLE SOURCE CODE

- ROBUST CIRCUIT DESIGN AND COMPONENT SELECTION

- OPTIONS:
  - ADD-ON RS-232 AND RS-485 SERIAL COMMUNICATION
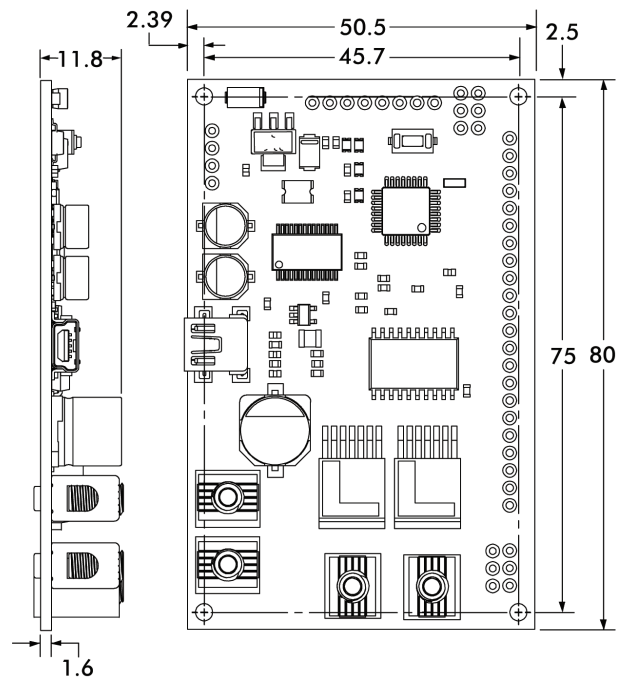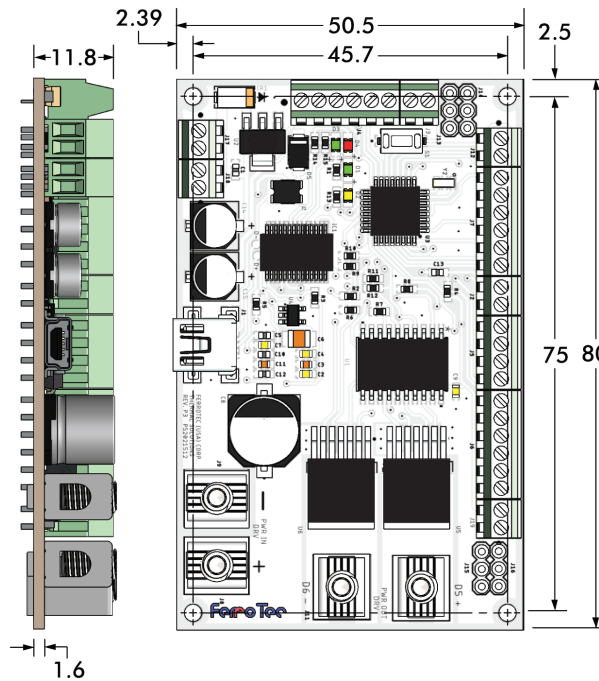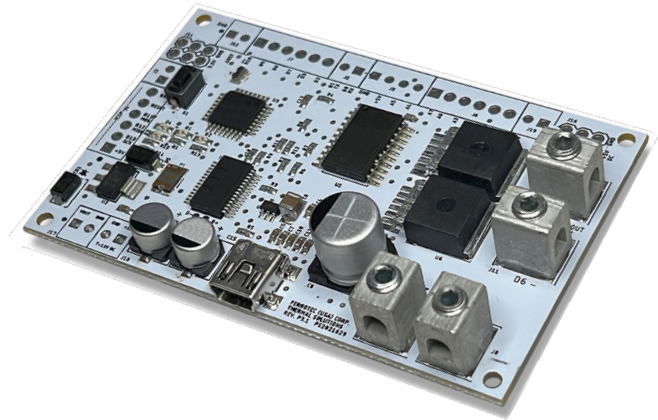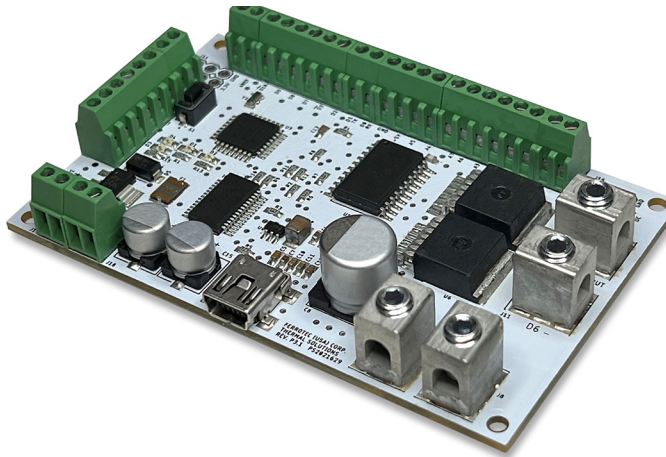 - REMOTE CONTROL
  - LOW-COST OEM VERSION
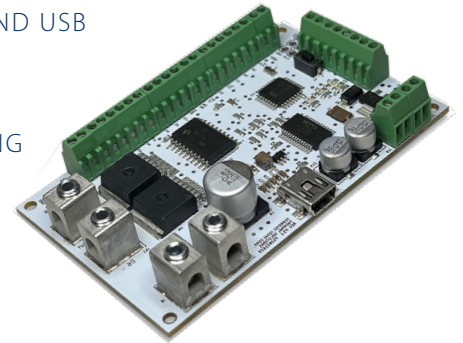
APPLICATIONS

BIPOLAR HEATING/COOLING CONTROL • TEMPERATURE MONITORING • HIGH-POWER APPLICATIONS • RELAY CONTROL POWERING FANS • SETTING ALARMS

Model 20117: Controller with Screw Terminals

Model 20116: OEM Version with Through-Holes

SPECIFICATIONS

HIGH POWER BRIDGE CIRCUIT	LOW-POWER I/O VOLTAGES	TEMPERATURE RESOLUTION	TYPICAL TEMPERATURE CONTROL RANGE	OPERATING TEMPERATURE	WEIGHT
I/O Voltage: 7-40 VDC Current: 30 A max.	Input: 7-12 VDC Output: 3.3, 5, or 7-12 VDC	±.0.1° C	-25° to +100° C (Load & Sensor Dependent	-25° C to +70° C (Ambient)	41 g