



Product: 036 (Embedded machine control - Primary use: conveyor based thermal processing)

Features:

- 16 thermocouple inputs (multiple types, mixable), 20 bit resolution, 50/60 hz noise filtering.
- 16 heating element control outputs (Pulse Width Modulated or 0-10v, multiple phases)
- 16 general purpose digital inputs (0-3v, 0-5v, 0-24v) with indicator LEDs
- 16 general purpose digital outputs (open collector - 5v, 12v, 24v usage, 500 ma) with indicator LEDs.
- 1 belt speed control set (1 freq input , 1 analog output, for closed loop control of speed and position)
- Real time 3 phase power measurement (power consumption, health of machine , etc..)
- 1 CAN bus interface for system expansion (32 CAN devices, including multiples of 036 unit)
- 1 Ethernet (10/100 mb) port
- 1 USB host (type a) port ... 1 USB slave (type b) port
- Size: 10" x 5" x 1 " , removable screw terminal blocks (3.5mm pitch)
- 12-24vdc power requirements @ less than 2 amps

Two processor sections

- embedded Linux computer for HMI/system control (with micro HDMI video output)
- 32 bit realtime processor for control of machine (temperatures, belt speed, interlocks, etc..)

Primary use:

Control of complex thermal processing equipment with it's own (external) flat panel display and networking interfaces.