

## Description

**Ultima ®** is the most powerful building block in our custom control range.  
With its unique structure and abilities it can be the framework for any of your control or process needs.

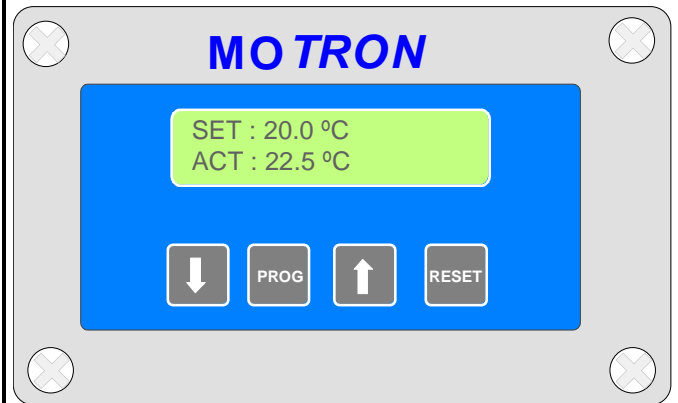
**Ultima ®** is a PCB solution with a built in microcontroller, 2x16 character display , 4 keys for operation and programming, realtime clockwith battery backup, 256 kbit EEPROM for data, 10 bit analogue input and output etc etc.

**Ultima ®** The Mother PCB remains the same, only parts of the software and the daughter PCB need to be defined from application to application, thus significantly reducing your time to market.

**Ultima ®** can also be configured as a “sandwich” construction, with the daughter PCB mounted directly together with the control PCB. Enabling for a compact and neat solution for easy mounting.

## Picture

Keypad and logo example



## Technical data

- 5V or 24V supply
- Max 40mA current draw
- PIC 18F4620 Controller
- 256 kbit EEPROM
- Realtime clock with Litium backup battery
- 10 bit AD/DA
- 2x16 character display
- Led back light for display (dimnable)
- 4 keys for user input
- Ribbon cable for:
  - I2C master/slave
  - RS232 5V
  - Capture/compare
  - PWM 10 bit
  - SPI
  - Interrupt
  - 10 bit A/D
  - 10 bit DA

## Sandwich example



## Ultima daughter PCB examples

- RF TX/RX/Transceiver 433/866 MHz
- I2C buffer max 100m
- 16 relay outputs no/nc or else
- 16 digital inputs pnp/npn or else
- 16 analog inputs 10 bit 0-10V or else
- 16 analog outputs 10 bit 0-10V or else
- RS485 drivers
- RS232C drives
- USB interface
- IrDA interface
- Bluetooth interface (ask)
- PTC/NTC temp sensor interface
- Pressure sensor interface
- Humidity (intelligent) sensor interface
- PWM motor Control interface
- ANY INTERFACE YOU WANT !

## Example configuration:

