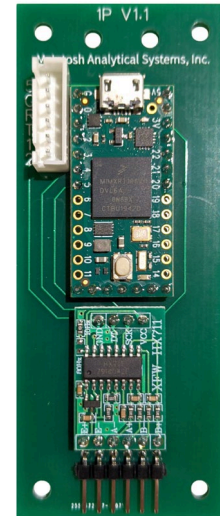


General Specifications

Supply Input	USB Powered
Dimensions	3.5" X 1.5" (90mm X 38mm) With 3mm mounting holes
ADC Resolution	24 bit (based on HX711)
Operating Modes	PC controlled via USB port (USB-Micro)
Control protocol	Uses Open Source "Command Messenger" Protocol. Additional protocols available upon request.
Sensor compatibility.....	Accommodates most Wheatstone bridge sensors, Including standard loadcells and strain gauges, Pressure sensors, etc.
Mating Connectors.....	Sensor: 100 mil spaced pin header USB: micro-USB Smart connector: 6-pin JST with 100 mil spacing
Operating Temperature	-20 to 85 °C PCB copper temperature
Relative Humidity.....	10% to 90% non condensing (operating and storage)

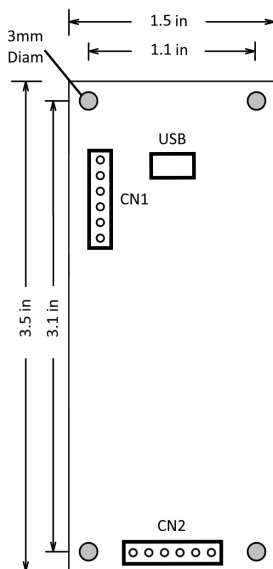


High Resolution LoadCell & Strain Gauge Interface

SENSOR CONNECTOR (CN2)		
Mating connector: 0.1 inch pin spaced Molex		
Pin	Name	Notes
1	E+	Excitation Pos
2	E-	Excitation Neg
3	A-	Ch A Neg
4	A+	Ch A Pos
5	B-	Ch B Neg
6	B+	Ch B Pos

SMART CONNECTOR (CN1)		
Mating connector: JST connector XHP-6		
Pin	Function	Notes
1	Power +	5VDC
2	Power -	Gnd
3	Receive	Serial In
4	Transmit	Serial Out
5	IO 1	Ch 1 IO
6	IO 2	Ch 2 IO

Mechanical Specifications



Key Features

- USB Powered
- Two selectable differential input channels
- On-chip active low noise PGA with selectable gain of 32, 64 and 128
- On-chip power supply regulator for load-cell and ADC analog power supply
- On-chip oscillator requiring no external component with optional external crystal
- On-chip power-on-reset
- Simple digital control and serial interface: pin-driven controls
- Selectable 10SPS or 80SPS output data rate
- Simultaneous 50 and 60Hz supply rejection

Ordering Information

Name	Order Number
LC1 LoadCell Interface.....	LCPT-F1
1Kg Bar Loadcell (option).....	LC1K-01
5Kg Bar Loadcell (option).....	LC5K-01
Gas Pressure Sensor (option).....	GPS1-01