

MD Lab DIY Frequency Counter

Parts List:

- 1 – PacTec Enclosure (62036-510-039 HPS-9VB Bone Kit) \$6.40
 - 1 – Bud Industries Red Lens (HP-3645) \$0.40
 - 1 – Mountain Switch Panel Mount Switch (108-0001-EVX) \$1.70
 - 1 – Radio Shack PC Board (276-150) \$2.19
 - 1 – Radio Shack PC Board (276-168) \$3.19
 - 1 – 74HC04N Inverter IC (74HC04N) \$0.15
 - 1 – PIC16F1516 Microcontroller \$1.93
 - 3 – .1uF Capacitors (B41011A6104M) \$0.06
 - 1 – .33uF Capacitor (ELE-A1HKAR33) \$0.07
 - 1 – 14 Pin Socket (4814-3000-CP) \$0.13
 - 1 – 28 Pin Socket (4828-6000-CP) \$0.19
 - 5 – NPN Transistors (I'm using 2N4401, but any will do). \$0.30
 - 1 – +5V Voltage Regulator (KA78L05AZ) \$0.13
 - 1 – Lite-On 4 Digit 7-Segment LED Display (LTC-4627JR) \$1.96
 - 1 – BNC Panel Mount Connector (112575) \$1.65
 - 5 – 1K Ohm 1/4th or 1/8th watt resistors. \$0.30
 - 8 – 390 Ohm 1/4th or 1/8th watt resistors. \$0.28
 - 1 – 6 Pin Straight Header Strip \$0.15
 - 4 – #4-40 3/8th Inch Screws + Nuts \$1.00
- Lots of 22AWG wire, solid or braided is fine, though I recommend braided. I'm using Solid core for the breadboard and braided for the actual build.



