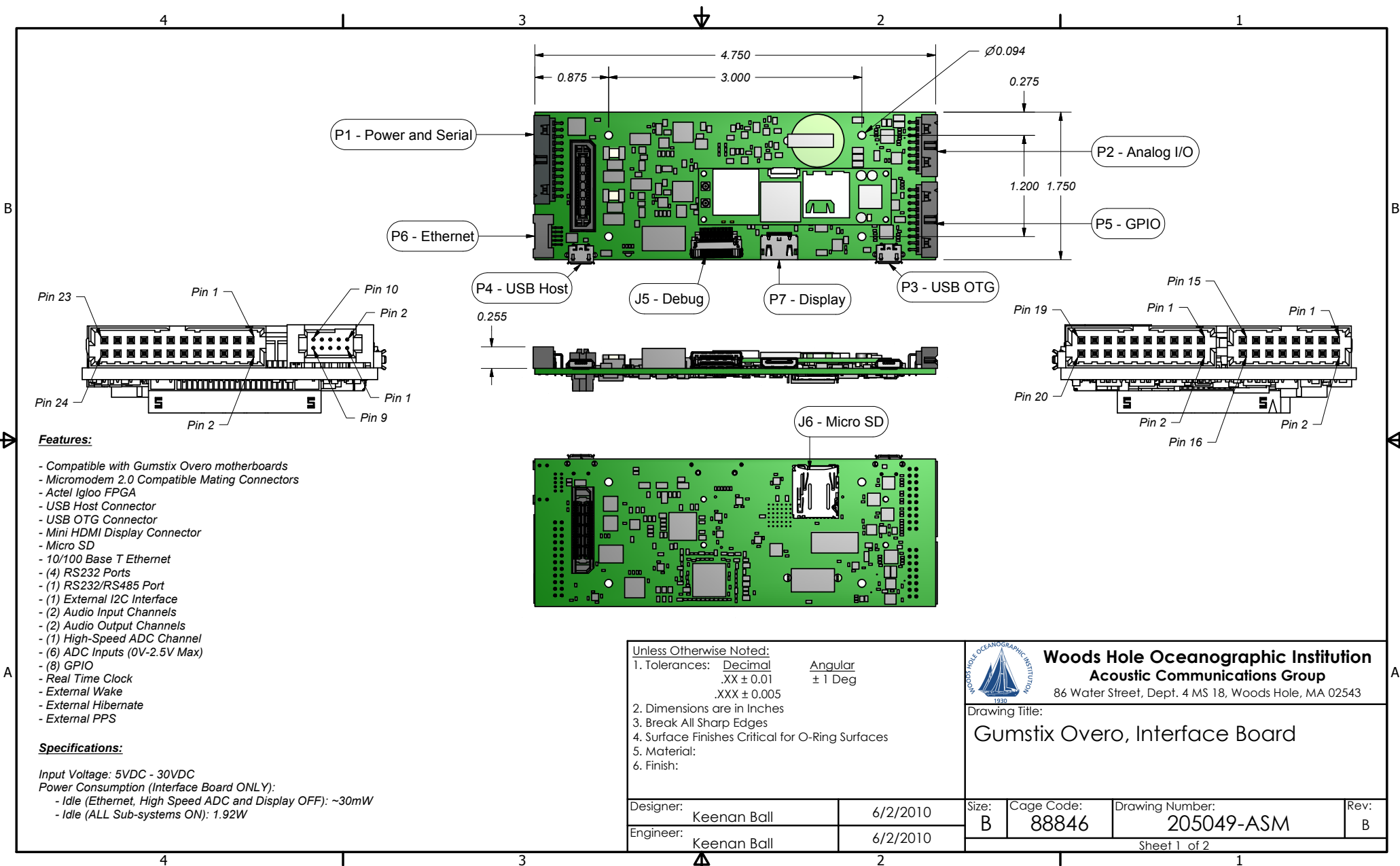




P1 - Power and Serial I/O

Molex Milli-Grid 87833-2420

Pin 1 GND
Pin 2 Edge Power (5VDC - 30VDC)
Pin 3 COM 1 RX / RX+
Pin 4 COM 1 /CTS / RX-
Pin 5 COM 1 TX / TX-
Pin 6 COM 1 /RTS / TX+
Pin 7 GND
Pin 8 GND
Pin 9 COM 2 RX
Pin 10 COM 2 /CTS
Pin 11 COM 2 TX
Pin 12 COM 2 /RTS
Pin 13 COM 3 RX
Pin 14 GND
Pin 15 COM 4 TX
Pin 16 GND
Pin 17 COM 4 RX
Pin 18 COM 5 CD
Pin 19 COM 4 TX
Pin 20 COM 5 DTR
Pin 21 COM 5 RX
Pin 22 COM 5 /CTS
Pin 23 COM 5 TX
Pin 24 COM 5 /RTS

P2 - Analog I/O

Molex Milli-Grid 87833-2020

Pin 1 ADC +
Pin 2 ADC -
Pin 3 Audio In R
Pin 4 GND
Pin 5 Audio In L
Pin 6 GND
Pin 7 Audio Out R
Pin 8 GND
Pin 9 Audio Out L
Pin 10 ADC 2
Pin 11 ADC 3
Pin 12 ADC 4
Pin 13 ADC 5
Pin 14 ADC 6
Pin 15 ADC 7
Pin 16 GND

P5 - GPIO

Molex Milli-Grid 87833-1620

Pin 1 GND
Pin 2 5V
Pin 3 I2C SCL
Pin 4 I2C SDA
Pin 5 EXTPPS
Pin 6 EXTHIBERNATE
Pin 7 EXTWAKE
Pin 8 GND
Pin 9 GPIO 1
Pin 10 GPIO 2
Pin 11 GPIO 3
Pin 12 GPIO 4
Pin 13 GND
Pin 14 GPIO 5
Pin 15 GPIO 6
Pin 16 GPIO 7
Pin 17 GPIO 8
Pin 18 GND
Pin 19 GND
Pin 20 3V

P6 - Ethernet

Samtec TFM-105-01-L-D-RE1-WT

Pin 1 ETH TX+
Pin 2 ETH TX-
Pin 3 ETH RX+
Pin 4 nc
Pin 5 nc
Pin 6 ETH RX-
Pin 7 nc
Pin 8 nc
Pin 9 nc
Pin 10 nc

P7 - Display

Samtec Mini HDMI

P3 - USB OTG

Micro USB AB

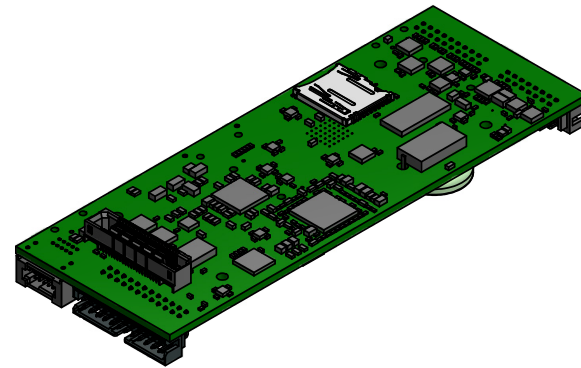
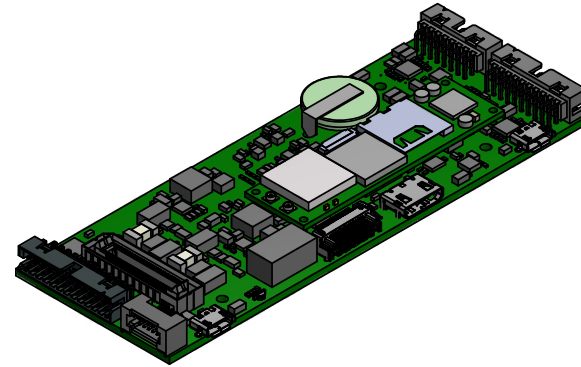
P4 - USB Host

Micro USB AB

J5 - Debug

Samtec MEC6-120-02-X-D-RA1

Pin 1 GND
Pin 2 DEBUG 1
Pin 3 DEBUG 17
Pin 4 GND
Pin 5 GND
Pin 6 DEBUG 2
Pin 7 DEBUG 18
Pin 8 GND
Pin 9 GND
Pin 10 DEBUG 3
Pin 11 DEBUG 19
Pin 12 DEBUG 4
Pin 13 DEBUG 20
Pin 14 DEBUG 5
Pin 15 GND
Pin 16 DEBUG 6
Pin 17 DEBUG 21
Pin 18 DEBUG 7
Pin 19 GND
Pin 20 DEBUG 8
Pin 21 DEBUG 22
Pin 22 GND
Pin 23 GND
Pin 24 DEBUG 9
Pin 25 TRST
Pin 26 DEBUG 10
Pin 27 TMS
Pin 28 DEBUG 11
Pin 29 TDO
Pin 30 DEBUG 12
Pin 31 GND
Pin 32 DEBUG 13
Pin 33 TDI
Pin 34 DEBUG 14
Pin 35 GND
Pin 36 DEBUG 15
Pin 37 TCK
Pin 38 DEBUG 16
Pin 39 2.5V
Pin 40 GND



Unless Otherwise Noted:

1. Tolerances: Decimal .XX ± 0.01 Angular ± 1 Deg
.XXX ± 0.005
2. Dimensions are in Inches
3. Break All Sharp Edges
4. Surface Finishes Critical for O-Ring Surfaces
5. Material:
6. Finish:

Designer: Keenan Ball

6/2/2010

Engineer: Keenan Ball

6/2/2010



Woods Hole Oceanographic Institution
Acoustic Communications Group

86 Water Street, Dept. 4 MS 18, Woods Hole, MA 02543

Drawing Title:

Gumstix Overo, Interface Board

Size:
B

Cage Code:
88846

Drawing Number:
205049-ASM

Rev:
B

Sheet 2 of 2