Mic capsule and preamplifier
Default gain = 100 (40 dB)
Populate R17 to lower gain,
10K = 10 (20 dB)
Remove R3 and populate R17 to raise gain.
1Meg = 1000 (60 dB)

Peak detector
Half-wave precision rectifier with gain of approx 2

Buffer amplifier

I/O connector
Decoupling
Schmitt trigger
Clear SJ1 to disable onboard LED.

Vcc range between 2.7V and 5.5V.