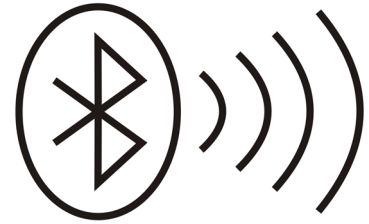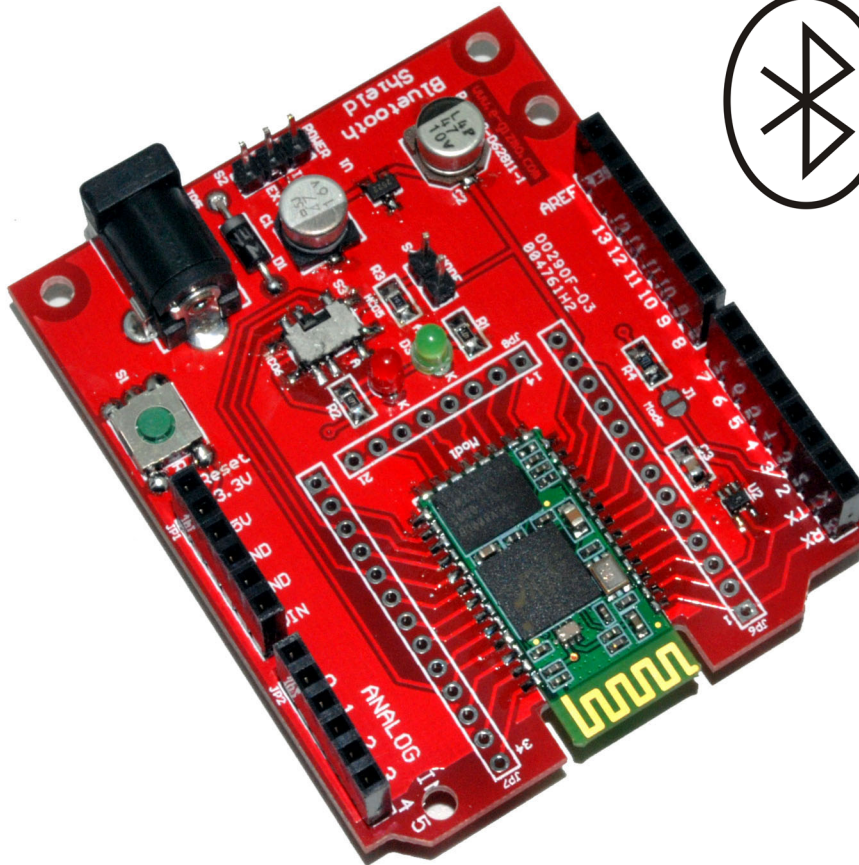# Bluetooth Shield

(Master & Slave)

Employing our latest EGBT-04 series low cost bluetooth module, the Bluetooth shield is likewise available in two low cost versions: Slave only functions and Master and Slave functions. Class 2 Bluetooth shield with SPP profile functioning as UART port wireless cable replacement.

FEATURES

- EGBT-04MS Bluetooth module (for Master)
  EGBT-04S Bluetooth module (for Slave)
- Extension port of the on-board Bluetooth module for future interfacing.
- External power supply (8-12V)
- Arduino Default power input (5V)
- Mode Switch Master or Slave
  (for Master only)
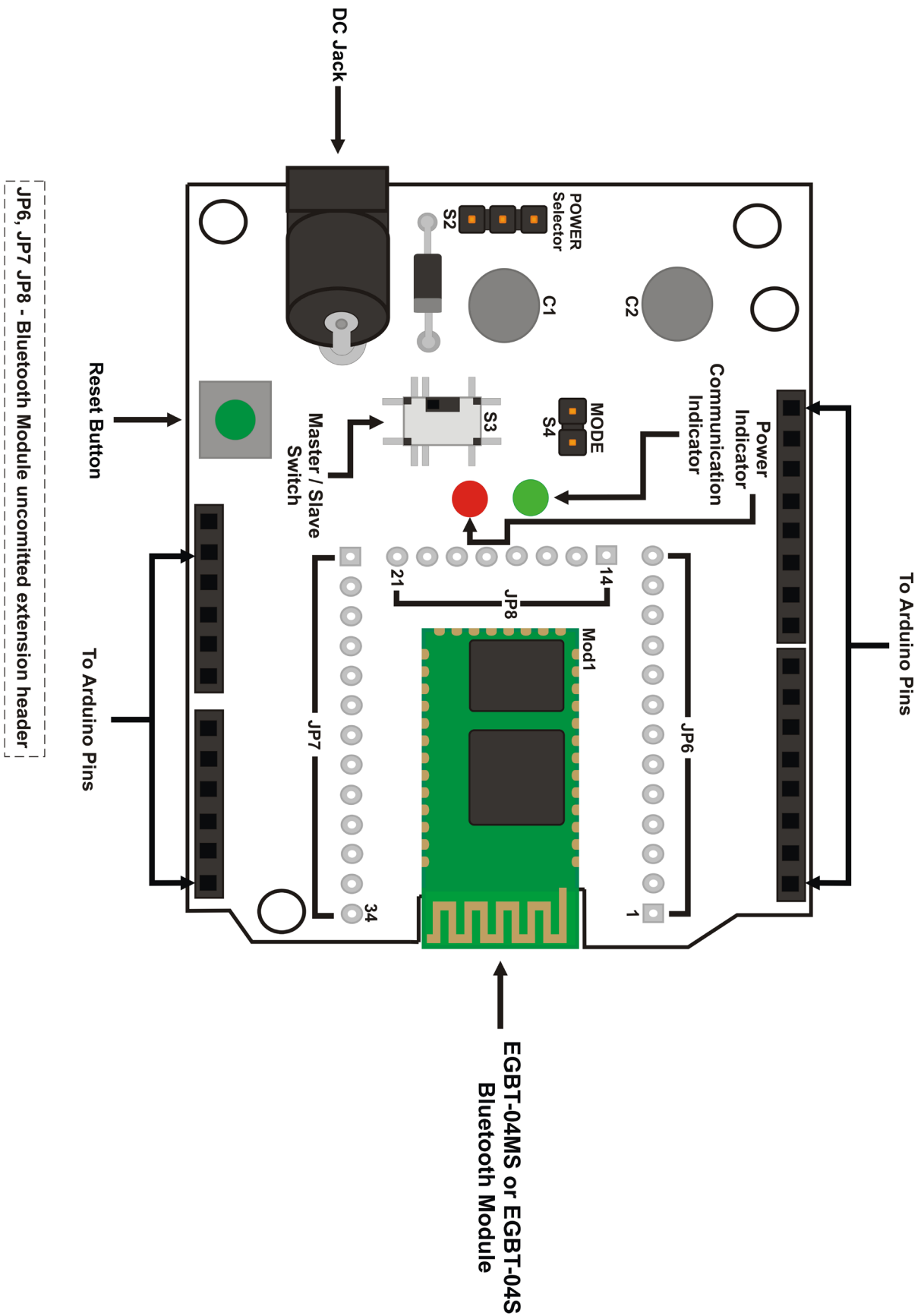
MAJOR COMPONENTS PRESENTATION

DC Jack

POWER Selector

S2

C1

C2

Reset Button

Master / Slave Switch

S3

MODE

S4

Power Indicator

Communication Indicator

To Arduino Pins

21

14

JP8

Mod1

JP7

JP6

34

1

To Arduino Pins

EGBT-04MS or EGBT-04S Bluetooth Module

JP6, JP7 JP8 - Bluetooth Module uncomitted extension header

Figure 1. Bluetooth Shield (Master or Slave) & its major components with details
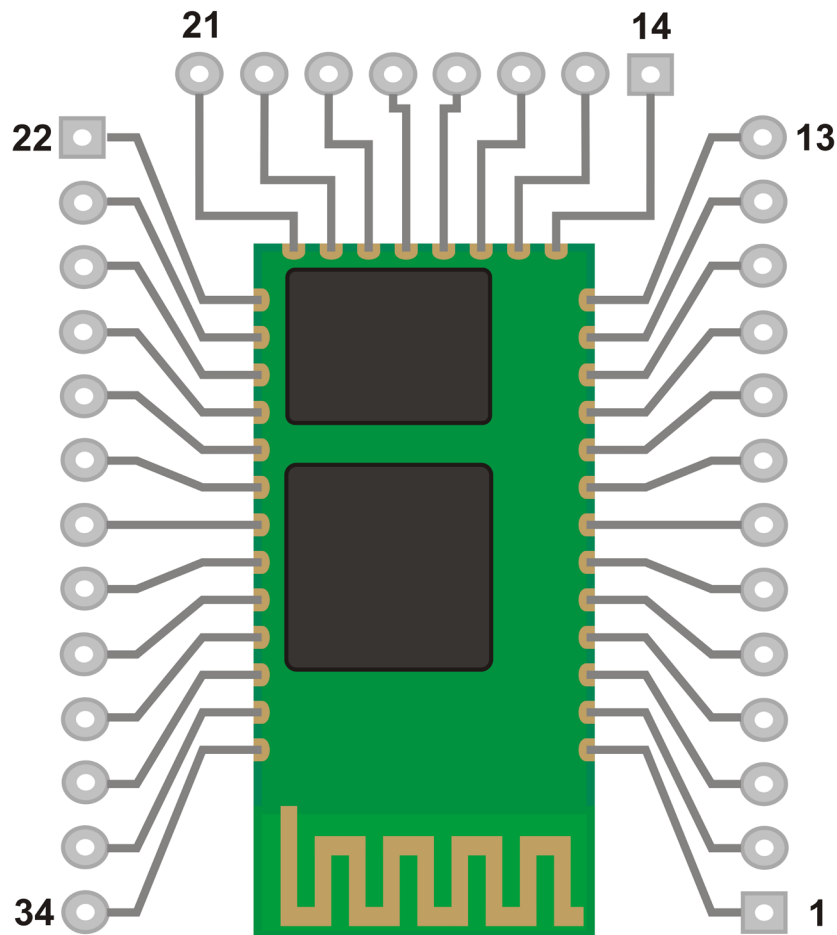
MODULE EXTENSION PIN ASSIGNMENTS

Figure 2. *Bluetooth Module (Master or Slave) Extension Port*

For detailed module specifications, AT commands reference, and interfacing bluetooth module with micro-controllers and PC com ports, visit *(www.e-gizmo.com).*
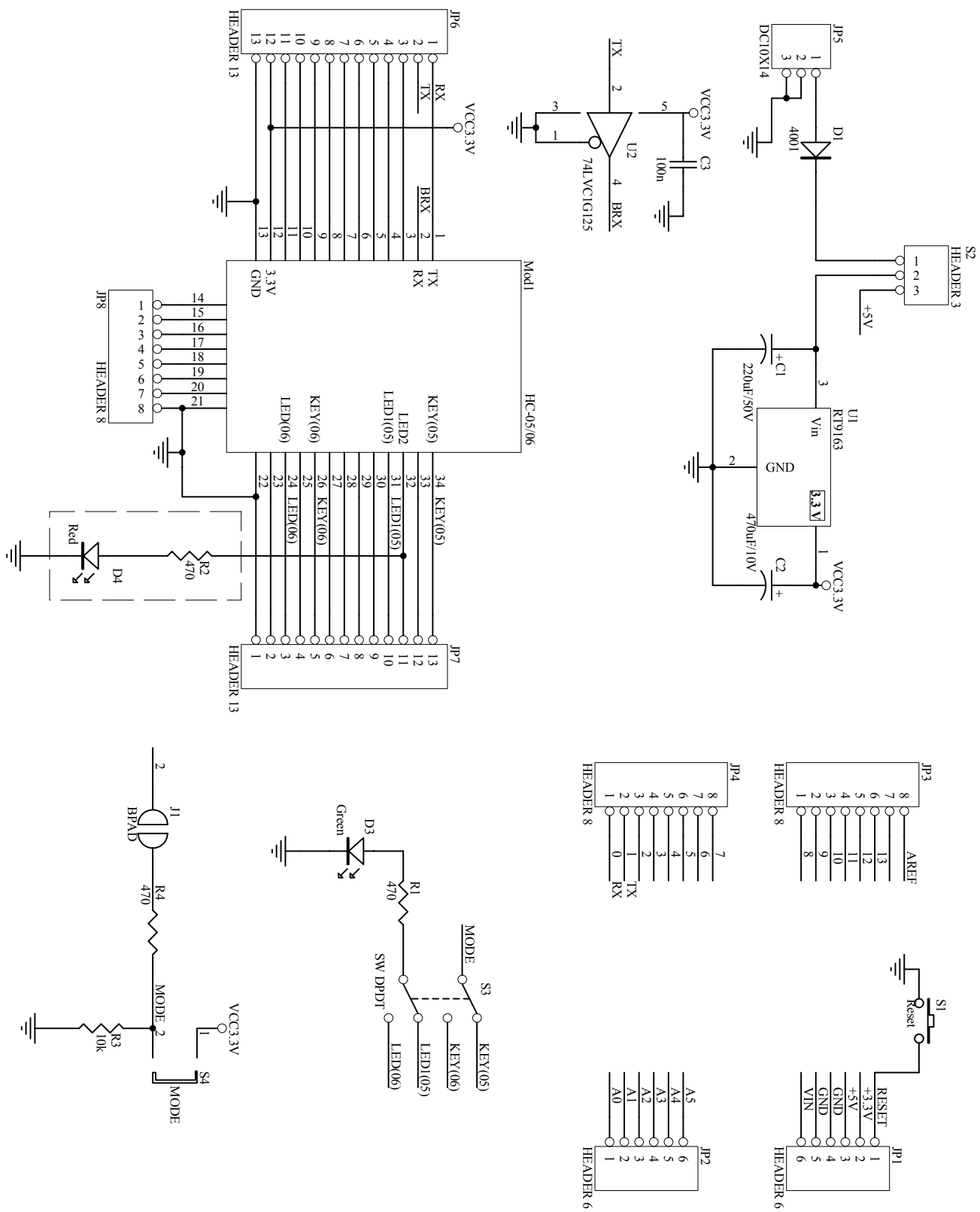
SCHEMATIC DIAGRAM

Figure 3. *Schematic Diagram of Bluetooth Shield*
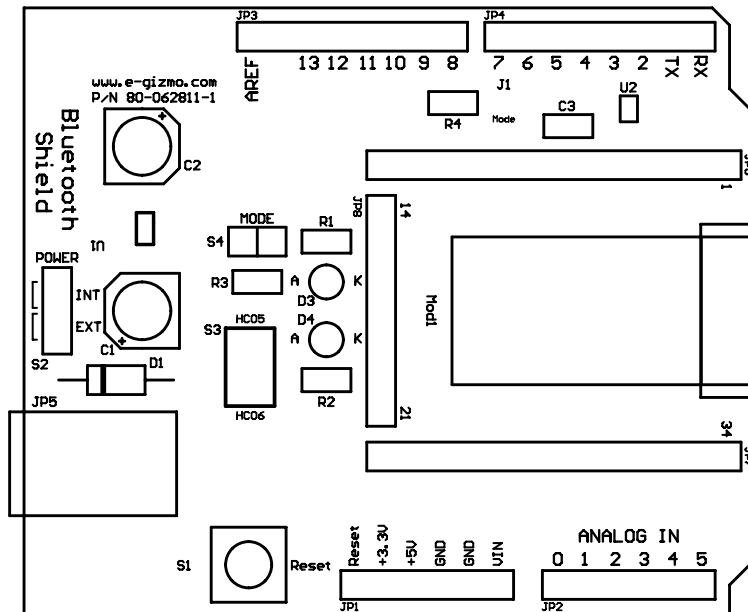
PCB BOARD PRESENTATION

Figure 4. *Bluetooth Shield PCB*
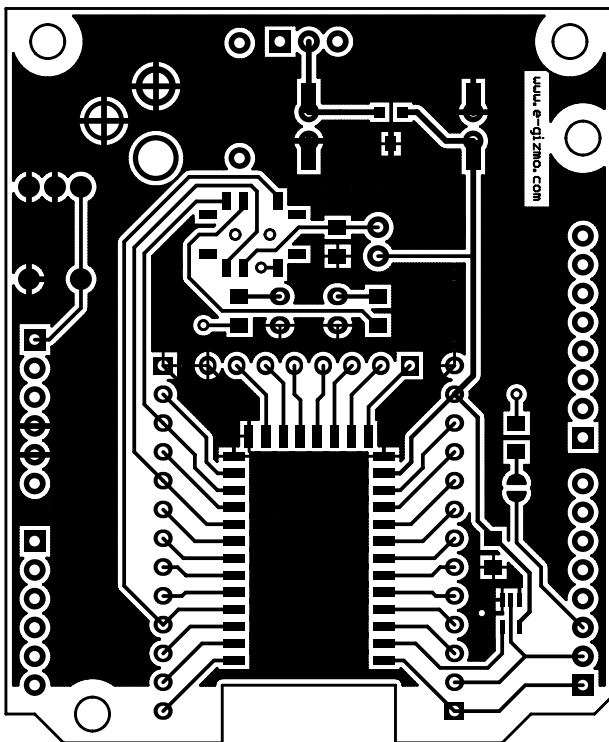*(silkscreen layout)*
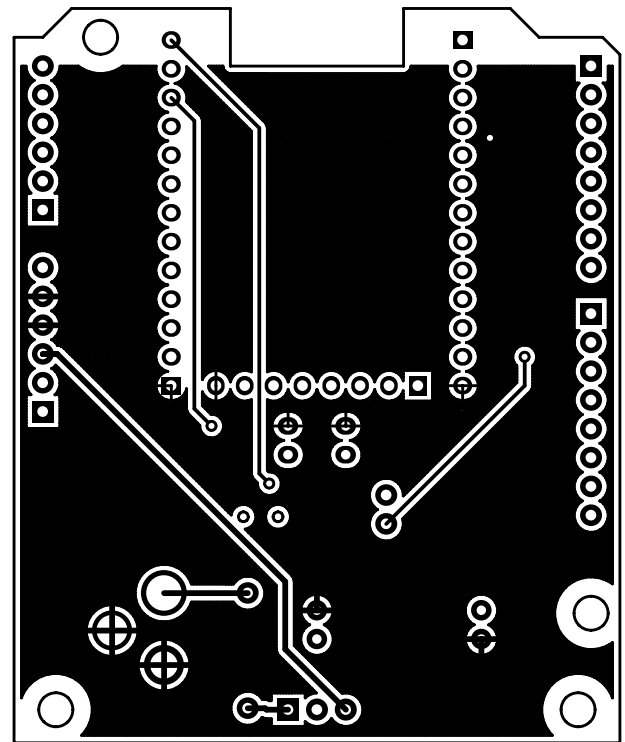

Figure 5. *Bluetooth Shield PCB*
Copper Pattern (Top Layer)

Figure 6. *Bluetooth Shield PCB*
Copper Pattern (Bottom Layer)