POWER

5V

M_5V_IN

D6 — BAT60A

C26 10uF/16V

GND

U2 — TLV62569DBVR
- 4 VIN
- 1 EN
- 3 SW
- 5 FB
- 2 GND

GND

L1 2.2µH

C23 33pF

R30 150K

3.3V

C24 33uF

GND

R14 1k

LD4 RED-0603

GND

R33 33.2K

GND

Vout = 0.6 (1+ 150K/33.2K)
    = 0.6 (1 + 4.518)
    = 3.311V

33uF is over-speced to handle high in-rush currents

There are two variants of the TLV62569DBVR, a 5-pin and a 6-pin version. To allow either to be fitted to PCB, the PCB footprint has 6 pads.

USB

USB_3.3V

C34 0.1uF

GND

5V

P1
10118194-0001LF

1
2
3
4
5

D7 — BAT60A

D_N

D_P

L3 HH-1M1608-121JT

R20 33R

R22 33R

D8 — PRTR5V0U2X
- 2 IO1
- 1 GND
- 3 IO2
- 4 VCC

5V

C35 0.1uF

C37 0.1uF

GND

GND

5V

C38 4.7uF/16V

GND

U8 — CP2104-GM
- 8 VBUS
- 7 REGIN
- 6 VDD
- 5 VIO
- 3 D+
- 4 D-
- 10 NC
- 16 VPP
- 2 GND
- 25 HEAT_TAB
- 9 RST
- 24 DCD
- 22 DSR
- 18 CTS
- 1 RI
- 20 RXD
- 21 TXD
- 19 RTS
- 23 DTR
- 17 SUSPEND
- 15 SUSPEND
- 14 GPIO.0
- 13 GPIO.1
- 12 GPIO.2
- 11 GPIO.3

USB_3.3V

R17 4.7K

R19 0R UNO_RXD

R21 0R UNO_TXD

USB_D_P

USB_D_N

UNO_RXD
UNO_TXD

Module_TXD
Module_RXD

MICRO USB B
5V

Impedance: 90R

Speed: 480Mbps(480Mhz)

Title *

Size: A4   Number: *   Revision: *

Date: 2020-08-25   Sheet * of *

Team: *   Drawn By: *

Cannot open file
C:\Users\Public\Documents\Altium\AD16\Templates\IOP_IoT logo.png

Arduino UNO

M1 — ARDUINO UNO R3
- RESERVED
- IOREF
- RESET
- 3.3V
- 5V
- GND
- GND
- VIN
- A0, A1, A2, A3, A4, A5
- SCL, SDA, AREF, GND
- D13, D12, D11, D10, D9, D8
- D7, D6, D5, D4, D3, D2, D1, D0

ARDUINO UNO R3_1

M_5V_IN 3.3V 3.3V

C30 0.1uF

U3 — LM35
- VCC (1)
- VOUT (2)
- GND (3)

R41 0R UNO_SCK
R40 0R UNO_MISO
R39 0R UNO_MOSI
R43 0R UNO_CS
R26 0R Module_RXD1
LED1
MODULE_ID_1
MODULE_ID_0
R25 0R Module_TXD1
R28 NM Module_RXD1
R27 NM Module_TXD1

GND

SWITCH 변경됨

SW2 — ITS-1105V
RESET_N
C32 0.1uF
GND GND GND

INDICATOR LED

3.3V
LD1 GREEN R35 1k
Module_LED R37 1k Q1 Q-MMBT4401
GND

3.3V
LD5 GREEN R38 1k
LED1 R11 1k Q4 Q-MMBT4401
GND

M2 — WizFi360
- RST (1)
- ANT
- PA0
- WP
- PA1
- PB6
- PB9
- VCC
- TXD1 (22)
- RXD1 (21)
- PB8
- PB7
- RXD0
- TXD0
- PB10
- GND
- PB15, PB18, PB13, PB14, PB17, PB16

3.3V 3.3V
R2 4.7k R3 4.7k
RESET_N R1 4.7k
Module_TXD1
Module_RXD1
Module_LED
C1 0.1uF
GND GND

3.3V
R44 4.7k
P3 — 7MSDP-B0-1012
- DAT2 (1)
- DAT3 (2)
- CMD (3)
- VDD (4)
- CLK (5)
- VSS (6)
- DAT0 (7)
- DAT1 (8)
- CD (9)
- GND (10, 11, 12, 13)
UNO_CS
UNO_MOSI
UNO_SCK
UNO_MISO
C22 0.1uF
GND

Module_TXD1 → Module_TXD
Module_RXD1 → Module_RXD

ID_2	ID_1	ID_0	모듈
000			WizFi360-PA
001			QC01
010			CMWX1ZZABZ
011			EC25

MODULE_ID_0 MODULE_ID_1
R42 4.7k R36 4.7k
GND GND

Title: *
Size: A4 Number: * Revision: *
Date: 2020-08-25 Sheet * of *
Team: * Drawn By: *

WIZnet Co., Ltd.
5F, Humax Village
Hwangseaul-ro, Bundang-gu
Seongnam-si, Gyeongi-do
South Korea

Cannot open file
C:\Users\Public\Documents\Altium\AD16\Templates\IOP_IoT logo.png

BOARD NAME : WIoT-WiFi_Shield
VERSION : V01
SIZE : 53.3mmX60mmX1.6T
GERBER DATE : 2020.06.18
LAYER : Bottom Overlay

WIZnet

WiFi Shield

60.000

15.000 23.300 15.000
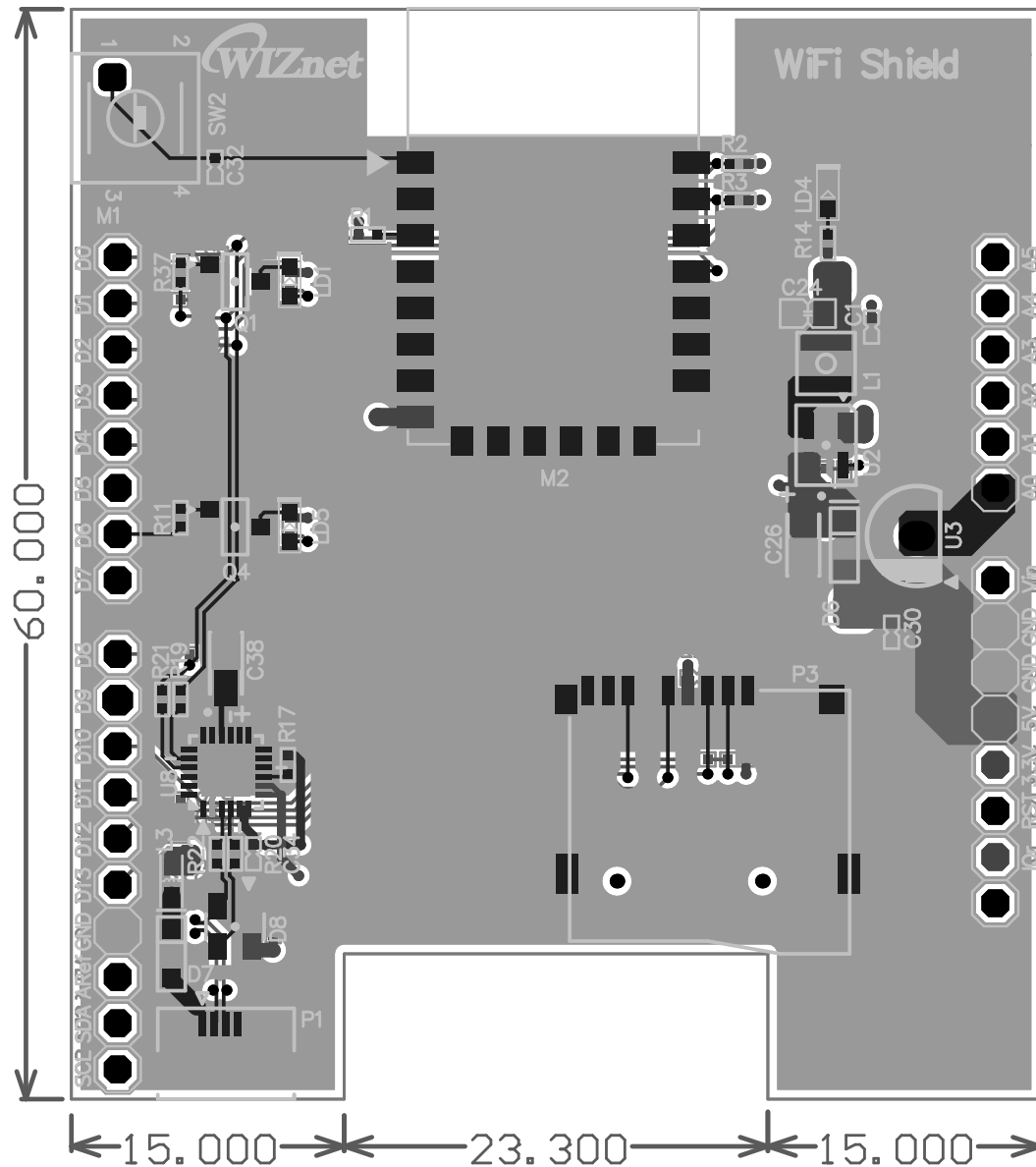
Layer Stack Up Detail for:
WIoT-WiFi_shield V01.PcbDoc

Layer Name : 4L 1.6T

Top Layer
Internal Plane 1
Internal Plane 2
Bottom Layer

KS Technology artwork