AW-CU300A series

IEEE 802.11 1X1 b/g/n Wireless LAN

WLAN Microcontroller LGA Module

Reference Design Guide

Rev. 01

(For Standard)

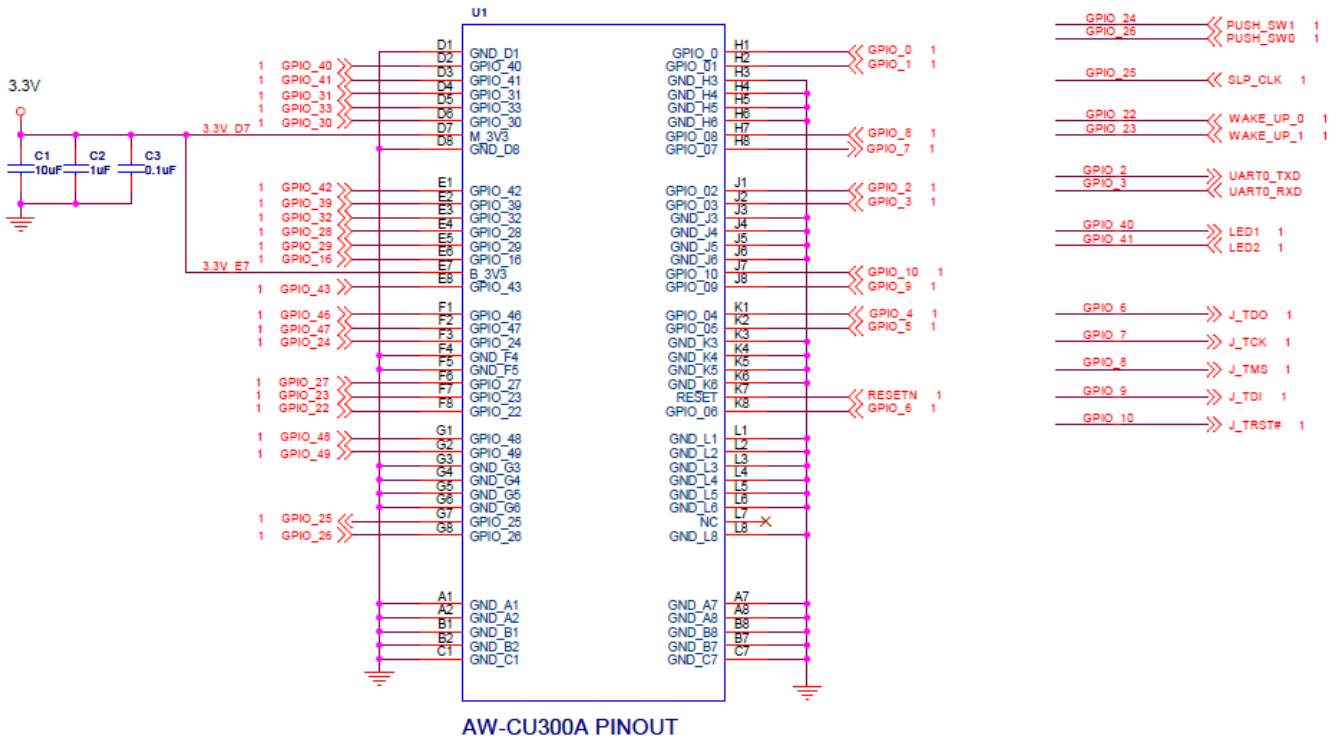## Revision History

Version	Revision Date	Description	Initials	Approved
01	2020/9/08	● **Initial Version**	Renton Tao	N.C. Chen

![AzureWave Technologies, Inc.]
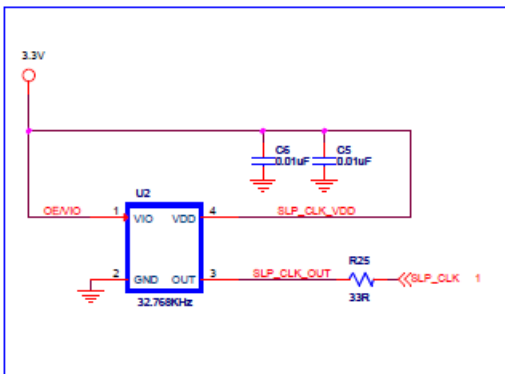
OVERVIEW

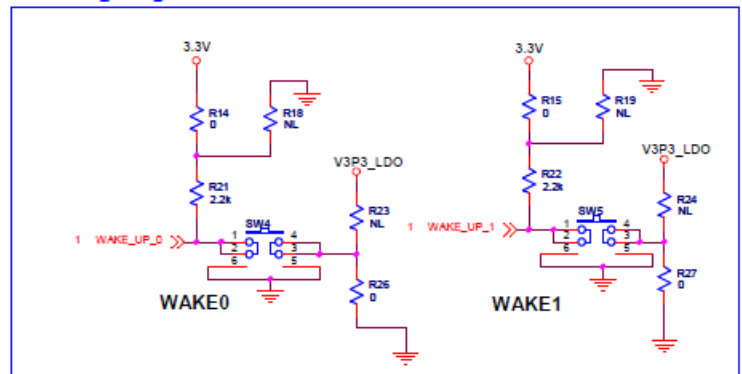This document is used for AW-CU300A, AW-CU300A V2, and AW-CU300A V3.

AW-CU300A Module Pinout

Sleeping Clock (Option by software)
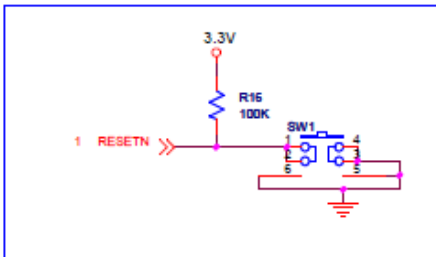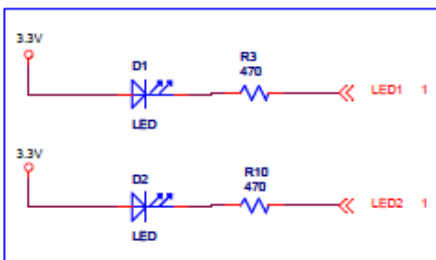

Wakeup by external

![AzureWave Technologies, Inc. logo]

Boots option

```
3.3V                    3.3V
 |                       |
 JP1                     JP2
 1  2  GPIO_16  1        1  2  GPIO_27  1
 3                       3
 R8                      R9
 1.8K                    1.8K
HDR_1x3                 HDR_1x3
```

System reset

```
        3.3V
         |
         R16
         100K
1  RESETN       SW1
          1  3    4
          6    5
```

PUSH BUTTON

```
        3.3V                          3.3V
         |                             |
         R17                           R12
         10k                           10k
1 PUSH_SW1    SW2             1 PUSH_SW0    SW3
          1      4                    1      4
          2      3                    2      3
          6      5                    6      5

   PUSH BUTTON 1                   PUSH BUTTON 0
```

APPLICATION LEDs

```
3.3V
 |   D1        R3
         |     470
         LED         LED1  1

3.3V
 |   D2        R10
         |     470
         LED         LED2  1
```

JTAG INTERFACE

```
                3.3V
                 |
        R4  R5  R6  R7
        10k 10k 10k 10k
                            J1
                            HEADER2X5                3.3V
1 J_TRST#        2        2      1  1                  |
1 J_TCK         4        4      3  5
1 J_TDI         6        6      5  5
1 J_TDO         8        8      7  7
1 J_TMS        10       10      9  9
        R11
        10k
```
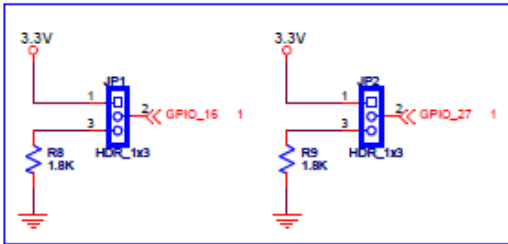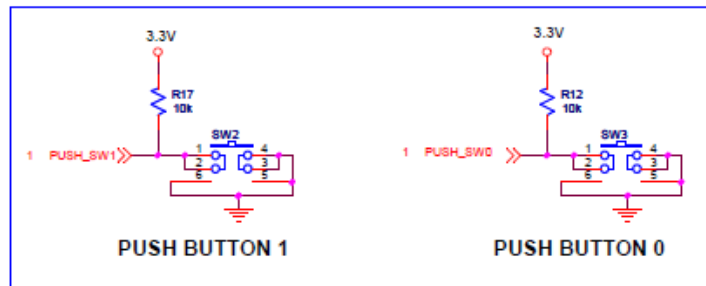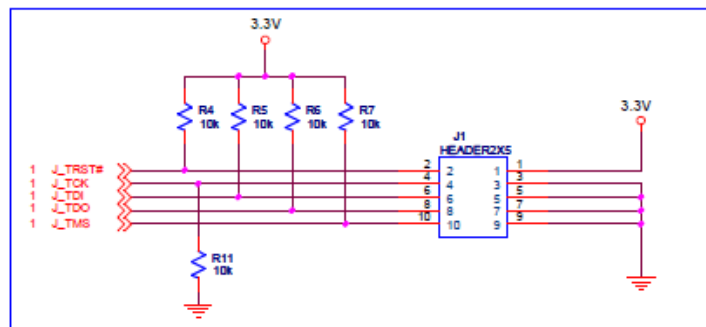
GPIO FUCTION

GPIO	Function
GPIO_00	UART0_CTS
GPIO_01	UART0_RTS
GPIO_02	UART0_TXD
GPIO_03	UART0_RXD
GPIO_6	J_TDO
GPIO_7	J_TCK / UART2_CTS
GPIO_8	J_TMS / UART2_RTS
GPIO_9	J_TDI / UART2_TXD
GPIO_10	J_TRST# / UART2_RXD
GPIO_16	STRAP1
GPIO_22	WAKE0
GPIO_23	WAKE1
GPIO_24	PUSH_SW1
GPIO_25	32KHz_CLK_IN
GPIO_26	PUSH_SW0
GPIO_27	STRAP0
GPIO_40	LED1
GPIO_41	LED2