

# **AW-HM662**

## **Reference Design Guide**

Rev. 01



### **Revision History**

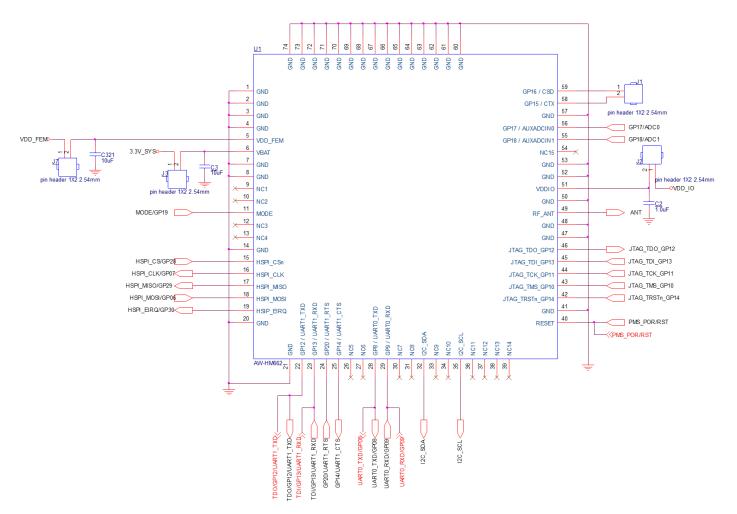
Version	Revision Date	Description	Initials	Approved
01	2024/9/5	Initial Version	Daniel Lee	N.C. Chen



#### **Reference Schematic**

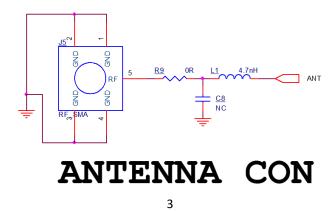
#### 1. AW-HM662

The capacitor C321 for VDD\_FEM, C3 for VBAT and C2 for VDDIO must be placed as close as possible.



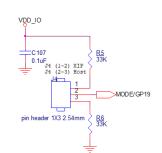
#### 2. Antenna Connector

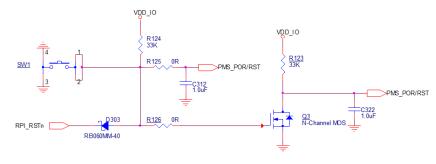
Please reserve a T-Shaped network for RF tuning.





#### 3. Mode Select / Reset / Indicate

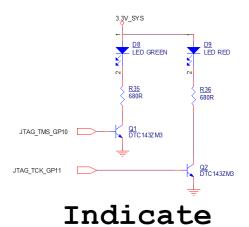




Active High R125 NC R914 on Active Low R125 on R914 NC

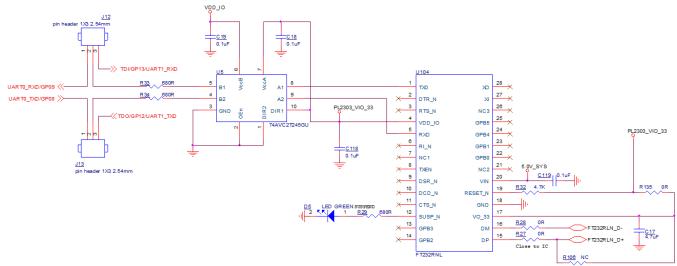
## MODE SELECT



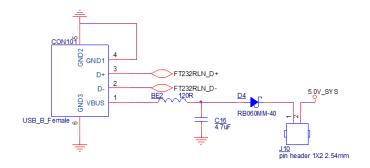




#### 4. USB to UART for DUT Control



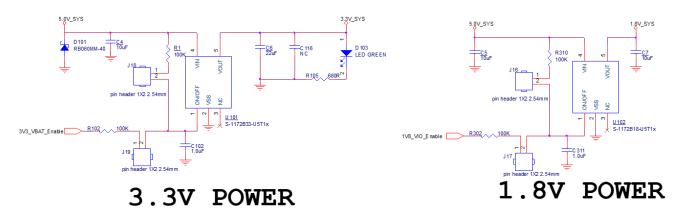
USB TO UART (DUT Control)



## USB for DUT Control

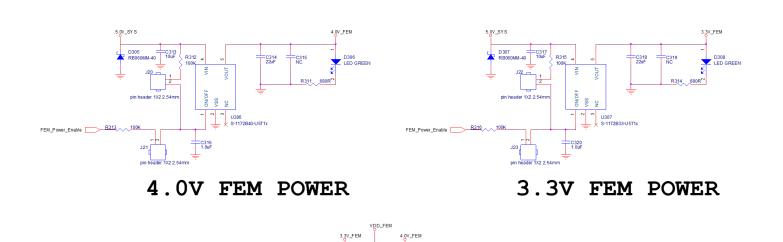


#### 5. Power Supply



J102 (2-3) VDD\_IO=3.3V\_SYS VDD\_IO 3.3V\_SYS - N M JB pin header 1X3 2.54mm

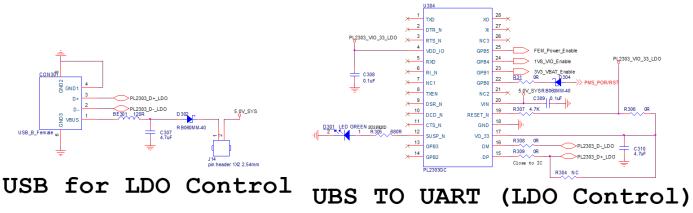
## IO VOLTAGE SELECT



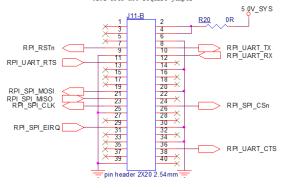
The information contained herein is the exclusive property of AzureWave and shall not be distributed, reproduced, or disclosed in whole or in part without prior written permission of AzureWave.

der 1X3 2.54mm





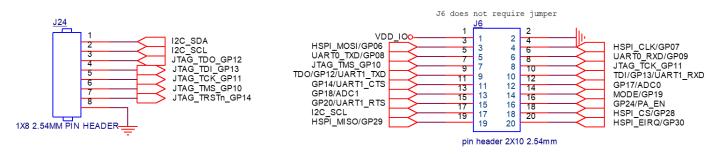
### 6. Raspberry PI



RPI_SPI_MOSI	<u> </u>	R21 0R		HSPI_MOSI/GP06	
RPI_SPI_MISO <		R22 OR	$\neg$	HSPI_MISO/GP29	
RPI_SPI_CLK	_>_	R23 OR	$\square$	HSPI_CLK/GP07	
RPI_SPI_EIRQ <	$\square$	R24 OR			HSPI_EIRQ/GP30
RPI_SPI_CSn	$\rightarrow$	R25 OR	$\rightarrow$	HSPI_CS/GP28	<u>R2</u>
RPI_UART_TX	$\rightarrow$	R26 OR	$\frown$	TDI/GP13/UART1_RXD	<u> 100</u> κ
RPI_UART_RX <		R17 OR	$\neg$	TD 0/GP12/U AR T1_TXD	
RPI_UART_CTS	$\rightarrow$	R18 OR	$\rightarrow$	GP20/UART1_RTS	Ŧ
RPI_UART_RTS <	_	R19 OR	$\sim$	GP14/UART1_CTS	

## RASPBERRY PI

#### 7. Reserve for Debug



7

The information contained herein is the exclusive property of AzureWave and shall not be distributed, reproduced, or disclosed in whole or in part without prior written permission of AzureWave.