Auri RM1 Manual

The following sections outline the steps necessary to physically incorporate the Auri RM1 Bluetooth Low Energy radio module into a host device.

A suitable method of software control can be discussed with Ampetronic at the user's request. Contact support@ampetronic.com

Radio Module PCB Connector Pinout

| Pin	Pin name	Description
1	USB D-	USB Data
2	USB D+	USB Data
3	VDD	3V3 Supply
4	RESET	Reset line
5	USB VBUS	USB 5V Supply
6	FEM PDN	Do not connect
7	GPIO	Not connected
8	GPIO	Not connected
9	GPIO	Not connected
10	GND	Ground
11	SPI SCLK	SPI Serial clock
12	-	Do not connect
13	GND	Ground
14	SPI MOSI	SPI Master out slave in
15	SPI MISO	SPI Master in slave out
16	SPI CS	SPI Chip select
17	UART TX	UART Transmit
18	UART TRX	UART Receive
19	GPIO	General purpose IO
20	GPIO	General purpose IO
21	GPIO	General purpose IO
22	-	Do not connect
23	GND	Ground
24	-	Do not connect

Physical Installation

For maximum range, it is recommended that the RM1 radio module is installed perpendicular to the host PCB. Connection is made using a right-angled, dual row, 24 pin, 1.27mm pitch pin header

Example host PCB footprint and radio module pinout are shown below including ground pads. It is recommended that the radio module pin header is soldered directly into plated through holes on the host PCB however a suitable pin socket can be used.

Host PCB Footprint:
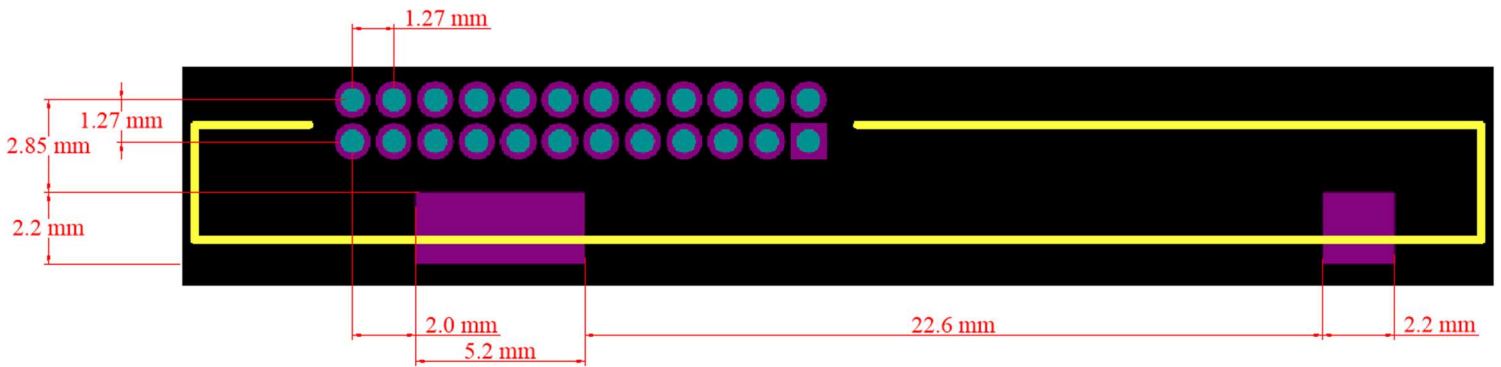
Host PCB Pinout:
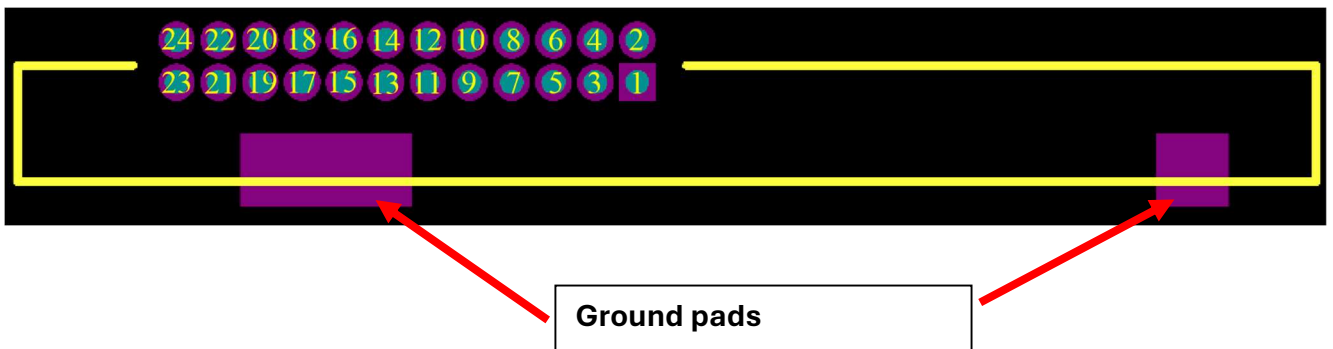
Ground pads

For EMC purposes, it is recommended that the host ground pads are soldered to the corresponding ground pads on the radio module:

Ground pads