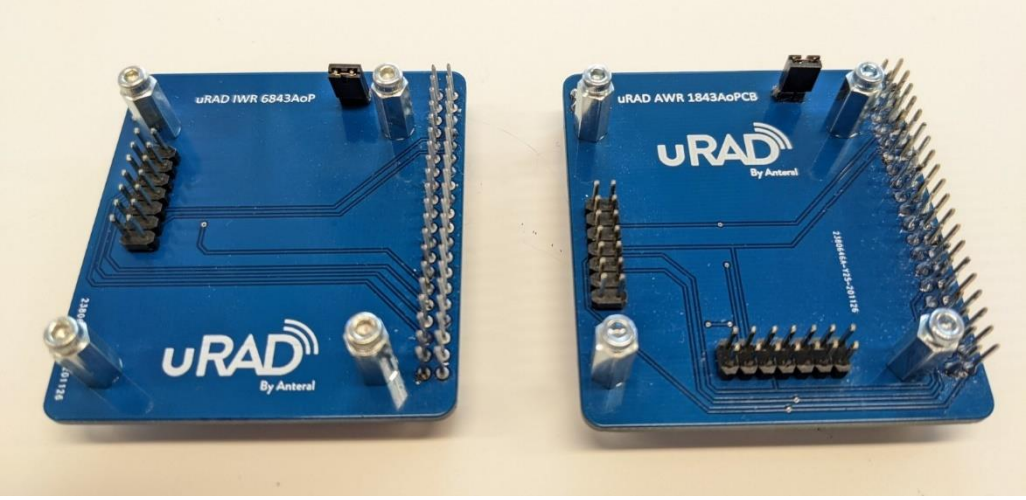
AWR and IWR PCB adapter for Raspberry Pi

Description

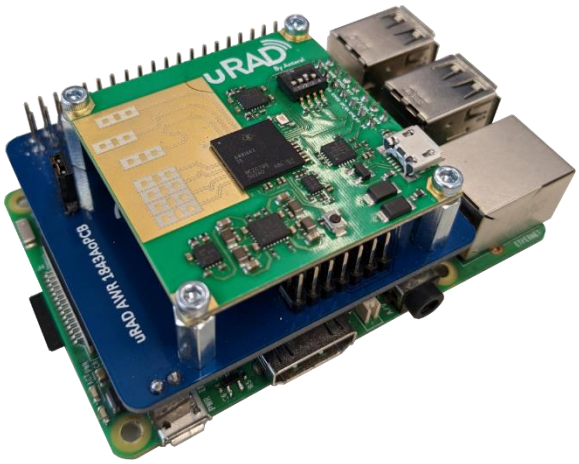
These two products consist on a PCB to connect uRAD automotive and industrial radar versions with a Raspberry Pi.



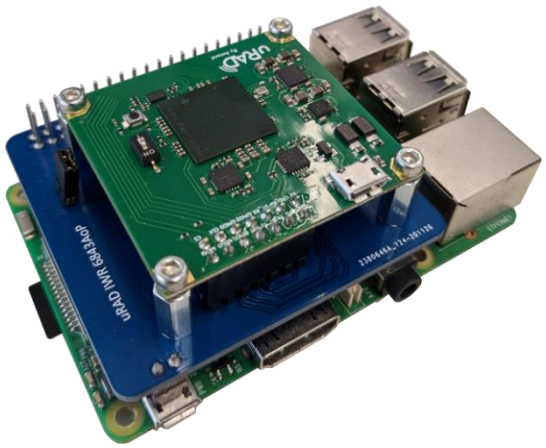
They are comprised of the necessary connectors for attaching the Raspberry Pi and uRAD with four metallic pillars for mechanical stability and heat dissipation.

Moreover, they have a jumper to connect the 5V power supply pin of uRAD with the 5V power supply pin of the Rasbperry Pi. Therefore, can power the radar by USB or Raspberry Pi.

AWR PCB adapter has two connectors for two different mounting options of uRAD. Thus, independently of the Raspberry Pi orientation, you can have the azimuth (120 deg) and elevation (40 deg) field of view with the orientation that you prefer.



IWR PCB adapter only has one mounting option because the azimuth and elevation field of view is the same (160 degrees).



Pin interconnection

AWR PCB adapter

uRAD Automotive pins	Raspberry Pi pins
5V	5V (pin 2, 4)
GND	GND (pin 6, 9, 14)
CFG_RX	UART_TX (pin 8)
DATA_TX	UART_RX (pin 10)
RST	GPIO21 (pin 40)
GPIO0	GPIO6 (pin 31)
GPIO1	GPIO13 (pin 33)
GPIO2	GPIO5 (pin 29)

IWR PCB adapter

uRAD Industrial pins	Raspberry Pi pins
5V	5V (pin 2, 4)
GND	GND (pin 6, 9, 14)
CFG_RX	UART_TX (pin 8)
DATA_TX	UART_RX (pin 10)
RST	GPIO6 (pin 31)
GPIO0	GPIO19 (pin 35)
GPIO1	GPIO13 (pin 33)
GPIO2	GPIO5 (pin 29)