

Installation Manual

mmWave Radar Sensor Module

Model Number : 2LP

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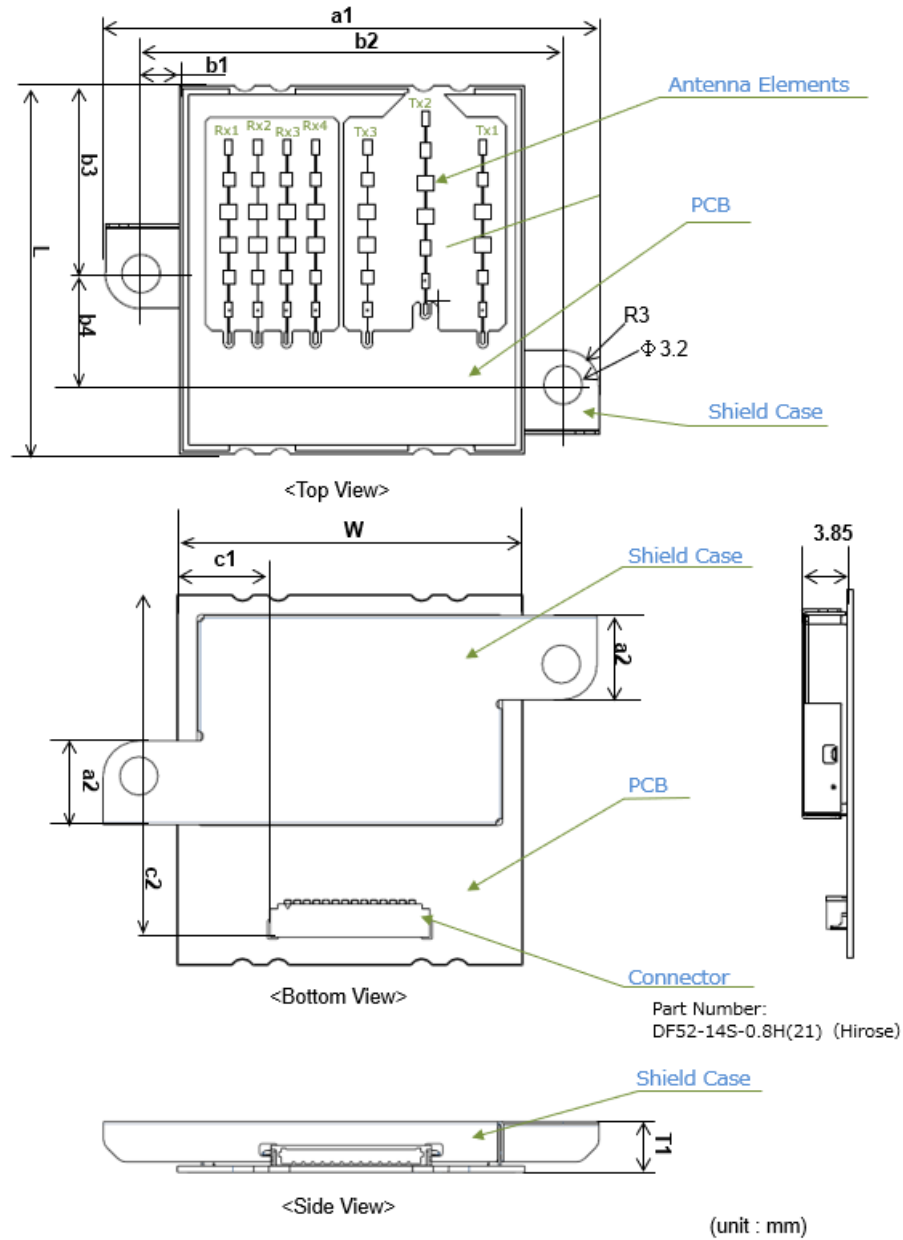
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1. Installation Overview

- Secure it to the host device with screws.
- Follow the pin assignment to connect to the host device.

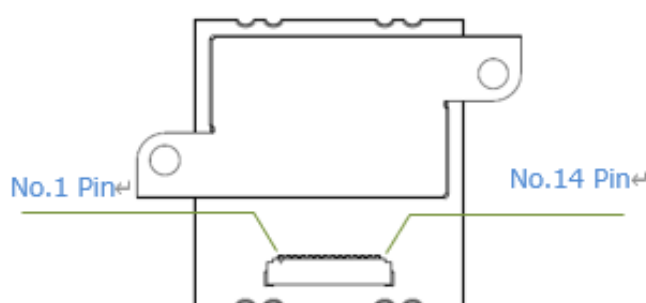
2. Module structure & dimensions



Mark	Dimensions	Mark	Dimensions	Mark	Dimensions	Mark	Dimensions
L	31.0	W	29.0	T1	4.4	T2	3.85
a1	41.42	a2	6.98	a3			
b1	3.20	b2	35.40	b3	15.83	b4	9.43
c1	7.80	c2	18.64				

3. Module pin descriptions

No.	Terminal Name	PIN TYPE	Connection to IWR6843 pin	Description
1	SYNC_OUT	O	GPIO_2	Synchronization Signal Output
2	NRST	I	NRESET	Power on reset for chip, Active low
3	UART1_Rx	I	RS232_RX	Command Input and Response. FW writing. Supported Baud rate: 115.2kbps
4	UART1_Tx	O	RS232_TX	
5	GND	-	-	Ground
6	UART2_Tx	O	SPIB_CLK	Sensing data output Supported Baud rate: 921.6kbps
7	SOP	I	PMIC_CLKOUT	FW writing mode switch (Sense On Power) L: Operation mode H: FW Writing mode
8	NERR	O	NERROR_OUTPUT	Open drain failsafe output signal. Connected to Processor/MCU to indicate that some severe criticality fault has happened. Recovery would be through reset. External pull up resistor is needed.
9	GND	-	-	Ground
10	SYNC_IN	I	SYNC_IN	Synchronization Signal Input
11	GND	-	-	Ground
12	VBAT	P	-	VBAT Input
13	VBAT	P	-	VBAT Input
14	PGOOD	O	-	Open drain output. Pulled up at 3.3v internally.



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