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Product Sheet

SiRad Easy[®] r4 Radar Front End (RFE) Board TRX_024_046*



* Available as SiRad_Easy_r4_RFE_TRX_024_046+.

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Version Control

Version	Changed section	Description of change	Reason for change
1.0	all		Initial document

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1 Hardware

- Pluggable 24 GHz front end board with single channel radar transceiver TRX 024 046
- 98 mm x 40 mm PCB with 4 x M2.5 screw holes
- Powered by SiRad Easy® r4 Base Board
- Target detection status LED
- 3 x Base Board connectors mounted (P1, P2, P3)

Required: SiRad Easy® r4 Base Board.

2 Specifications

Parameter	Value	
Size	98 mm x 40 mm x 8 mm	
Weight	15.8 g	
Power Supply	Provided by SiRad Easy [®] r4 Base Board, only	
Interfaces	 3 x Base Board connectors mounted (P1, P2, P3) 2 x signal I/O port (10 pins), BTB connector (0.5 mm pitch) 1 x signal I/O port (20 pins), BTB connector (0.5 mm pitch) 	

The electrical characteristics for the mounted radar transceiver can be found in the TRX 024_046 data sheet.

3 Mechanical Drawing



Figure 1 Mechanical Drawing



4 **Pinout Description**

Below figures show the pinout descriptions of the Base Board connectors and connected test points.



Figure 3 Pinout Description - Version 1.0 / 1.1

5 Modular System

The *SiRad Easy®* r4 RFE Board TRX_024_046 is part of the <u>*SiRad Easy®* r4</u> modular evaluation kit, consisting of Base Board, exchangeable RFE boards covering select radar transceivers of Silicon Radar's portfolio, Breakout Board and other accessories. A detailed description and compatibility information of related parts can be found under <u>*SiRad Easy®* r4</u> Boards & Accessories.



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