



Product Summary

24GHz Radar Module Evaluation KIT

High precision distance measurement radar adapted to Infineon product MMIC

<Common Specification>

Item	Functional performance
Module Size (mm)	50(W)×70(D)×28(H)
Interface	UART(USB) ^{#1}
Power Supply(V)	5 ^{#1}
Current Consumption(mA)	340 (typ)
Frequency(GHz)	24.05 ~ 24.25
Modulation bandwidth(MHz)	190
Measured distance range(m)	0.1 ~ 30
Distance measurement accuracy(m)	± 0.1
Measurement time(mS)	20 (max)

* PC connection by the included UART-USB conversion, operable with bus power

Module type specification

Module Type	4222V	2222V	4222H	2222H
Antenna Type				
Transmitter(Tx) Patch	4x2	2x2	4x2	2x2
Receiver(Rx) Patch	2x2	2x2	2x2	2x2
Transmit antenna half-value angle (typ)				
Azimuth(deg)	±20	±20	±20	±20
Elevation(deg)	±10	±20	±10	±20
Receiver antenna half-value angle (typ)				
Azimuth(deg)	±20	±20	±20	±20
Elevation(deg)	±20	±20	±20	±20
Polarization direction	Vertical	Vertical	Horizontal	Horizontal
Output Power dBm(typ)E1PP	+21	+17.5	+21	+17.5

Module appearance

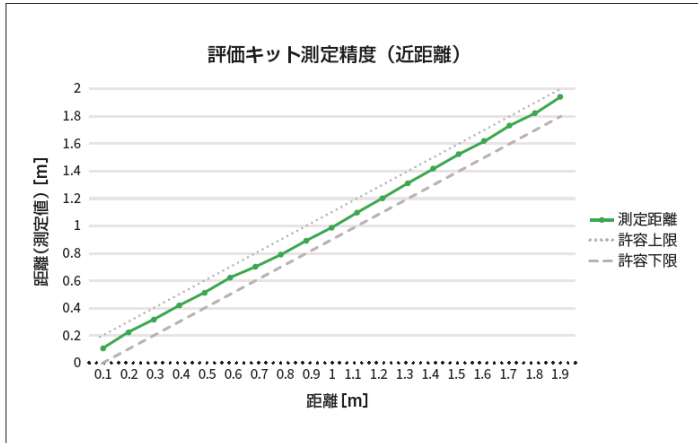


Main features

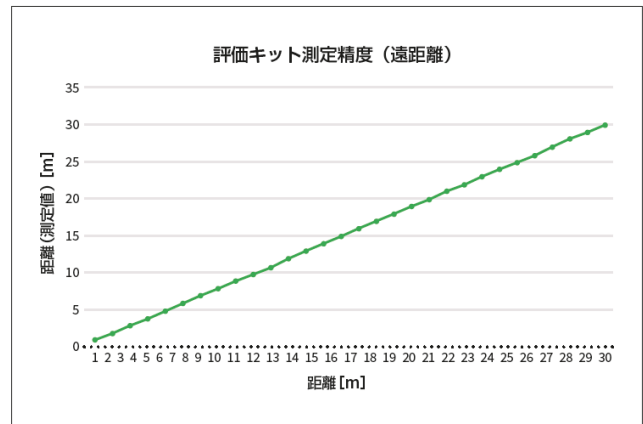
- >24 GHz transceiver IC, BGT 24 MTR 11 Adopted
- >Take advantage of Radar sensor, Stable distance measurement in various environments
- >It exceeds the conventional 24 GHz Radar performance
High accuracy (± 10 cm), short distance (up to 10 cm)



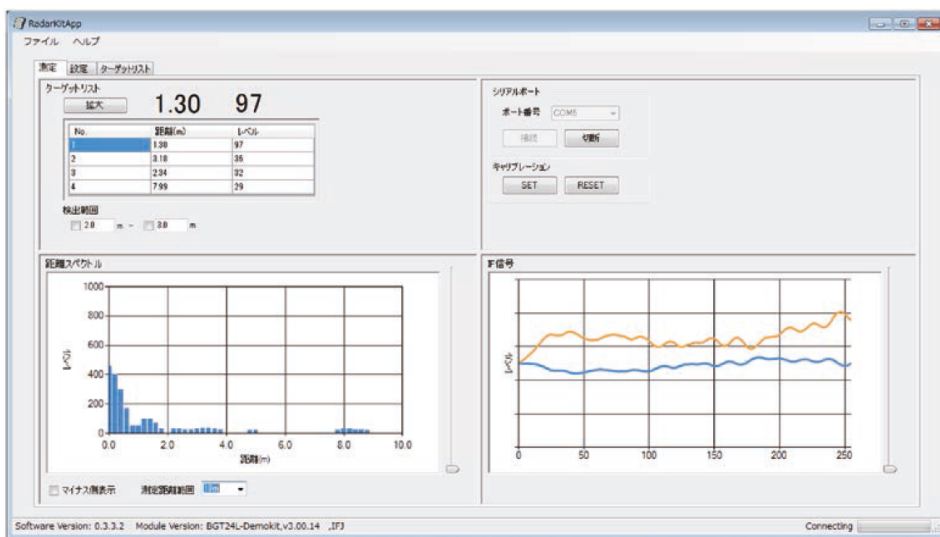
24GHz Rader Module Evaluation KIT



近距離測定精度



遠距離測定精度



Graphical User Interface

➤ This demonstration kit can be used for checking radar ranging performance