

79GHz

ERIS Radar Sensor Product Evaluation Kit

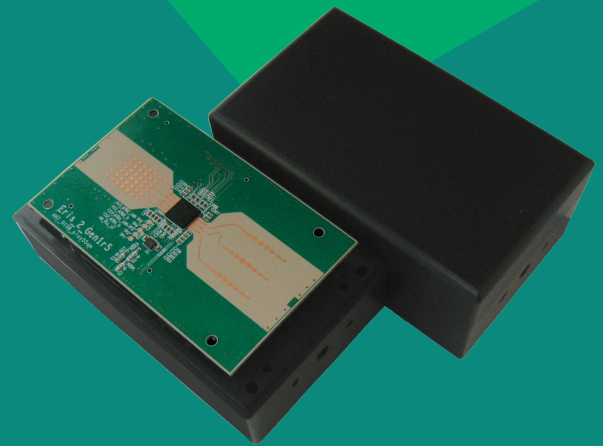
Our radar sensor products are high precision and small size by using our proprietary signal-processing technique for 79GHz radar MMIC(TEF810x) and the dedicated radar MCU(S32R274) manufactured by NXP.

TEF810x has a wide range of experience in automotive applications, and S32R274 has built-in Z7 cores that perform radar computation and SPT specialized in radar signal processing to achieve high performance and high-speed processing.

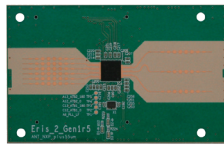
This radar module uses MIMO(Multi Input Multi Output) method to enable detection of direction over long distances. It is also certified with radio regulatory in Japan, so you can use our products soon in public field.

Specifications

Size	mm	62(W)×41.7(D)×103(H)
Interface		LAN(10/100/1000BaseT) CAN
Supply Voltage	V	12
Current Consumption	A	1
RF Frequency	GHz	77.5 - 79.5
Modulation Bandwidth	GHz	2
Detection Range(Typ)	m	0.5 - 10
Detection Angle(Typ)	deg	±60
Range Resolution	cm	8
Chirp Time	us	26



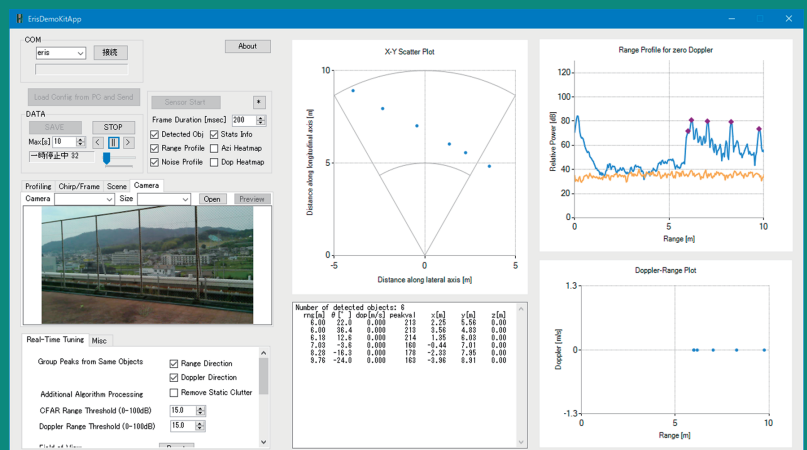
Antenna Variations

Type Name	ER01_01080108_2D	
Antenna Type		
TX	Patch	1×8
RX	Patch	1×8
Transmitter Antenna Half-power Angle (Typ)		
Azimuth	deg	±40
Elevation	deg	±5
Receive Antenna Half-power Angle (Typ)		
Azimuth	deg	±40
Elevation	deg	±5
Polarization Direction		
Vertical		
Output Power(Typ)	dBm EIRP	24

ERIS Dedicated Software (for Windows10)

The Radar Sensor Product Evaluation Kit supports display various measurement data.

It is easy to display sensor settings, display and record/playback measured data.



*Please contact the distributor or below for inquiries about this catalog.

*This specification is subject to change without prior notice.

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