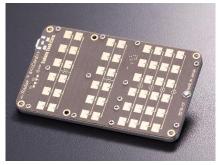
miRadar<sup>®</sup> 8 « Card »



# Card-size 24GHz FMCW MIMO **Radar Platform**

### **Overview**

- 24GHz FMCW MIMO Radar sensor
- Tx 2ch, Rx 4ch / 8ch virtual array
- Business Card size, right-weight Module
- Support both distance and Vital Sign data
- microUSB interface



### **Features**

- Contactless sensing even when Blankets and Clothing exit, and no-affect Brightness
- Simultaneous and Multiple target detection

### **Specifications**

- Frequency; 24GHz
- Certification: ARIB-T73 (Japan)
- Tx Power: -4/2/8 dBm (selectable)

92 x 55 x 5

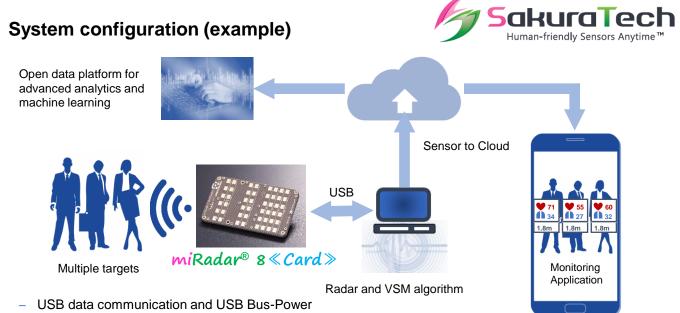
Elevation ±8° / Azimuth ±45° Distance 0.8m / Azimuth 13°

- # of Antenna: Tx 2, Rx 4 MIMO
- FoV:
- Resolution:
- Size (mm):
- Signal processing: External PC
- Power:
  - Operating Temp. -20 to +60°c

### **Applications**

- **Care Services** Simultaneous multiple people monitoring of Vital Sign Monitoring, Heart and Respiration rates even Blankets and Clothing exist
- Security
  - Intrusion detection
  - Avoidance detection
  - Human detection over a wall (note) in visible and in dark-night.
- Construction field
  - People detection of prohibits area
- Parking / Multi storey Car Park
  - Intrusion detection
  - Child Presence Detection
- **Backward Monitoring** Prevention of a collision with a vehicle approaching from behind, or blind spot.

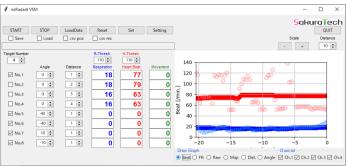




Application software running on the PC

# Software Development Kit for VSM Application (example)

- Python open source-code available for user development
- Instruction manual





# **Ordering Guide**

Product Name	Product Number	Comments
miRadar <sup>®</sup> 8 <card></card>	B279-01	Card size, 24GHz FMCW MIMO Radar Platform
miRadar <sup>®</sup> 8-EV2 <card></card>	B279-01-EV2	Radar Evaluation hardware bundled B279-SW001 and B279-SW002
miRadar <sup>®</sup> 8-VSM <card></card>	B279-01-VSM	VSM Evaluation hardware bundled B279-SW007
Radar Evaluation software	B279-SW001	Radar Evaluation software (starter version) – bundled EV2 evaluation kit.
Radar Evaluation software	B279-SW002	Radar Evaluation software (standard version) – bundled EV2 evaluation kit.
VSM Evaluation software	B279-SW007	VSM Evaluation software – bundled VSM evaluation kit
VSM SDK (Matlab)	B279-SW009	SDK for VSM. Opened some source code for MATLAB / Windows
VSM SDK (Python)	B279-SW011	SDK for VSM. Python code for user development

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#### ALLIANCE PARTNERS



