mi Radar® 8 «IoT»

SakuraTech
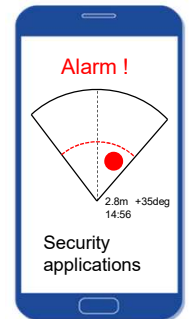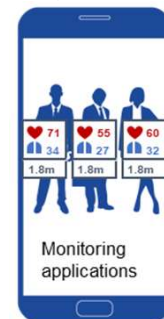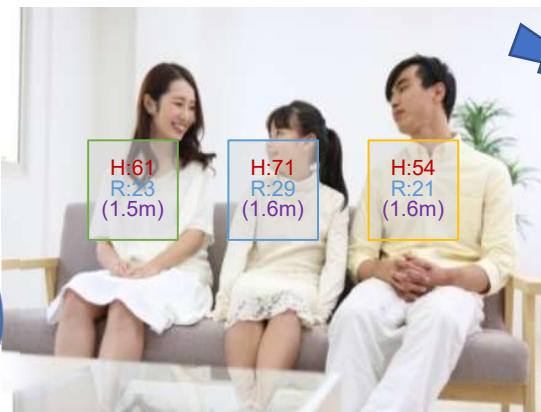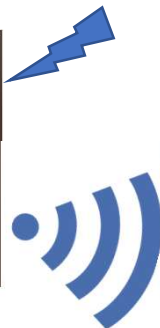Human-friendly Sensors Anytime ™

24GHz FMCW MIMO RADAR IoT SENSOR

■ FEATURES

- The miRadar™ 8 «IoT» is a unified miRadar ™ 8 and small PC for 24GHz FMCW radar sensor system.
- Advanced signal processing is realized by parallel processing using multiple CPU cores.
- Allows connectivity with IoT cloud system.
- The connectivity is avarable by installing the app on your smartphone.

■ Applications

- Monitoring system
  Non-contact detection of biological information (heart rate and breathing rate) of multiple people.
- Nursing care service
  24/7monitoring, moving object tracking, sensing through blankets and clothing, sudden infant death syndrome (SIDS) prevention, sleep apnea syndrome (SAS) prevention.

■ Specification

- Frequency   24GHz
- Certification: ARIB-T54 (Japan)
- Tx Power -4/2/8 dBm (selectable)
- Channel: 2T&4R (8 virtual antennas)
- FOV: Elevation ±6° & Azimuth ±45°
- Resolution: distance 1m & Azimuth 13°
- Size (mm): 125 x 125 x 45
- signal processing : internal small PC
- Power DC+5V, <3.0A
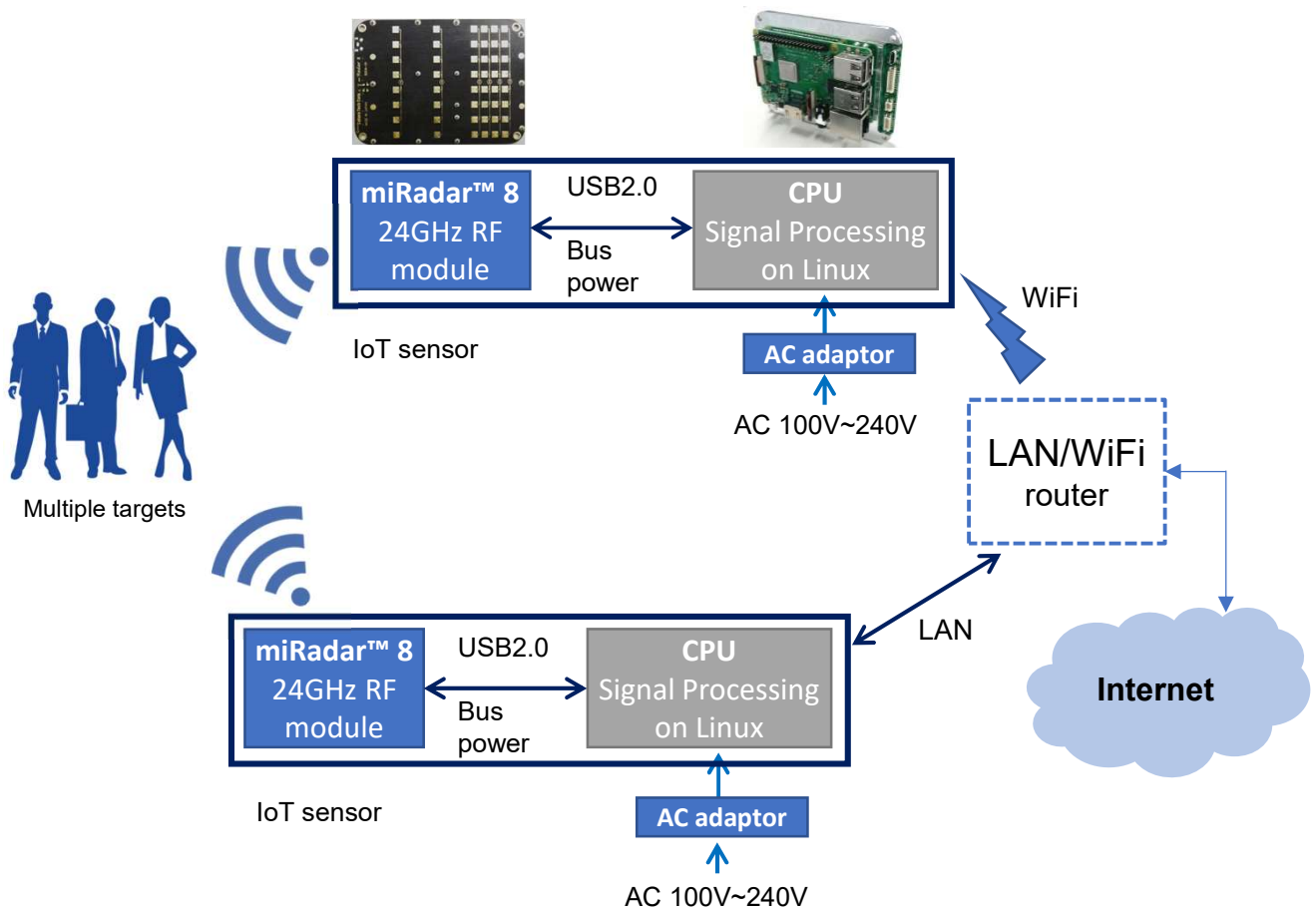- Accessory : AC adapter

■ Host Interface

- Ethernet TCP/IP
- WiFi 2.4GHz

■ Software

- API command based control over TCP/IP
- Sensor parameter configurations for measurement modes
- Data detection for distance, azimuth, heart rate, breathing rate, and so on.
- Data format: polar plot, range plot.
- Data storing and restoring (CSV format)

- **Sensor Block diagram**

miRadar™ 8
24GHz RF module

USB2.0
Bus power

CPU
Signal Processing on Linux

IoT sensor

AC adaptor

AC 100V~240V

WiFi

LAN/WiFi router

Multiple targets

miRadar™ 8
24GHz RF module

USB2.0
Bus power

CPU
Signal Processing on Linux

IoT sensor

AC adaptor

AC 100V~240V

LAN

Internet

- **Order Guide**

モデル	内　容	備　考
B278-01	Vital Sign Monitor	
B278-02	Radar Sensor	

Note : Any product appearances, specifications, etc. are subject to change for improvement without prior notice. When exporting the product, confirm the country of destination, application, and customer. If any of them falls into an objective requirement, please take the necessary procedures, including export certificate application.

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