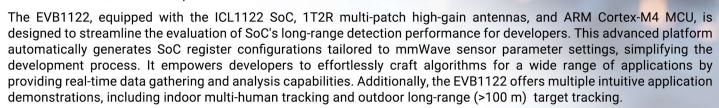


EVB1122

ICL1122 SoC evaluation board with high-gain antennas

24G mmWave Sensor Development Kit



Features

Complete hardware system: Integrated 1T2R mmWave sensor SoC, multi-patch high-gain antennas, high-performance MCU, and high-rate USB type-C interface.

Agile developing tools: Comprehensive SoC evaluation system, intuitive radar configuration and real-time signal waveform analysis tools.

Diverse user experience: Built-in typical application demos, i.e. indoor multi-human tracking, and outdoor long-range target tracking.

Specifications	
Operating Frequency	24 GHz
Sweeping Bandwidth	24~25 GHz (reconfigurable)
Equivalent Isotropic Radiated Power	22 dBm (reconfigurable)
Operating Voltage	5 V
Sensor SoC	ICL1122 (1T2R)
Hardware Size	43 mm x 41 mm
Field of View (6 dB beamwidth)	86° x 28°
IAP Function	In-application programming (IAP) using UART

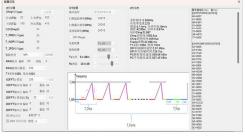
Power Supply and Interfaces

Support UART / USB Type-C / I/O interface communication.

Maximum data transfer rate 34 Mbps.

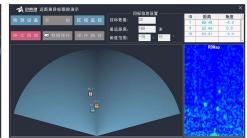
Support debugging and programming via SWD.

Support USB power supply (default) or external power supply via J1.



Accurate Range, Velocity, and Angle

Measurement



Parameter Configuration Interface Indoor Multi-Human Tracking

Indoor Multi-Human Tracking

Outdoor Long-Range Target Tracking



Outdoor Long-Range Target Tracking

ICLEGEND MICRO

Systems · Electronics · Intelligence · Semiconductors | iclegend.com



ICLEGEND MICRO is committed to developing high-performance wireless SoC and making RF technology smart. Our products and technologies cover broad wireless applications such as millimeter wave sensors, next generation mobile communication, satellite internet, etc. The company develops revolutionary chip and micro-system products, grants smart devices with wireless perception, cognition, and communication abilities, and makes every effort to promote wireless technology breakthrough in high-end applications with the integration of system-on-chip, modules, software, and algorithms, etc.

WeChat Online Shop

WE MAKE RF SMART