Plextek
Exceptional Engineering Solutions

Delivering novel concepts to deployable capability

PLX-T60

MMWAVE TECHNOLOGY PLATFORM

Configurable mmWave Radar Technology Platform

Target classification

Ultra-fine range and Doppler resolution enable PLX-T60 to classify small targets and reduce false alarms even when much larger objects crowd the scene.

Low cost

The PLX-T60 leverages Plextek's 35+ year history designing intricate RF systems for a diverse customer set. This configurable radar platform is ideal for any organisation optimising its security systems in a low-effort, cost-conscious way.

Long range, low SWaP

With the best detection range for its size on the market, the PLX-T60 detects people at 200 m and vehicles well over 250 m. Its 4W of power consumption enables its use across countless platforms.

Comprehensive coverage

Multiple PLX-T60s can be netted together to provide low-cost, comprehensive coverage of even the most complex sites. PLX-T60 devices can be configured for TAK and Sapient compliance.

Example Applications

PLX-T60 can support numerous use cases due to its extensive feature set. Given the low cost, many PLX-T60s can be netted together for even greater coverage, while remaining affordable. The price point and obscure signal make them ideal for covert and/or leave-behind sensor operations.

- Soldier Mounted
- Perimeter Security
- Collision Avoidance
- Route Planning
- Terrain Mapping and Characterisation
- Alternative Navigation
- Covert Sense
- Drone-to-drone Docking

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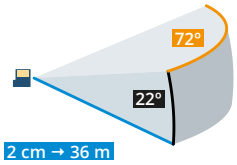
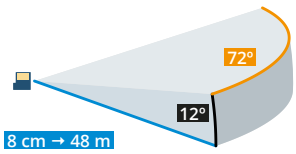
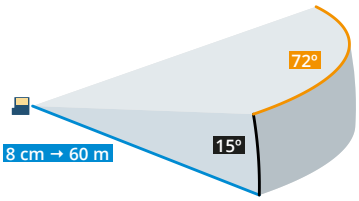
PLX-T60A
Very short range wide field of view (3D)



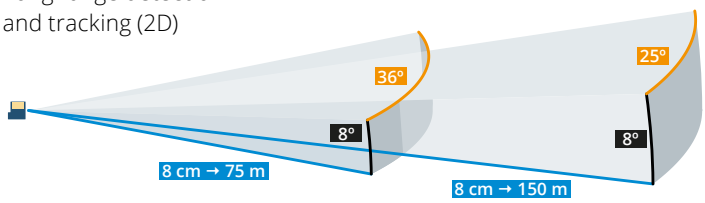
PLX-T60B
Short range (3D)



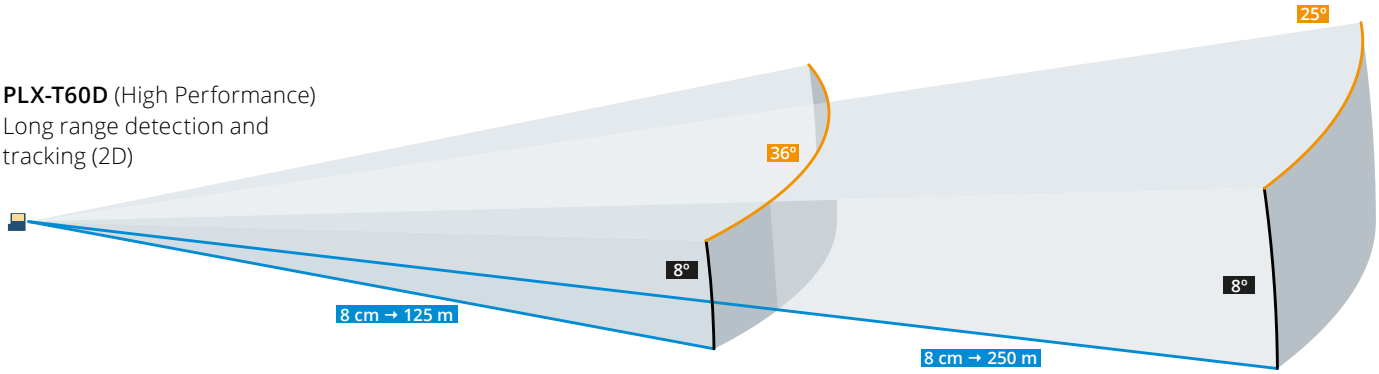
PLX-T60C
Medium range (3D)



PLX-T60D
Long range detection and tracking (2D)

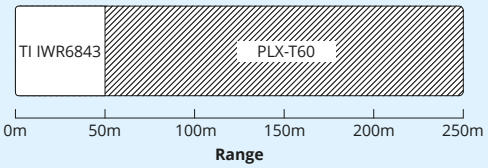


PLX-T60D (High Performance)
Long range detection and tracking (2D)



Key Features

- Up to 250 m detection range against a person



PLX-T60 and Texas Instruments IWR6843ISK Evaluation board range comparison

- Plextek's substrate-integrated-wave-guide-based antenna design (patent pending) boosts efficiency and operational bandwidth whilst maintaining a consistent radiation pattern, thereby enabling:
  - Higher signal-to-noise ratio*
  - Better range resolution*
  - Multiple concurrent device operation without causing mutual interference
  - Reduced false detections* due to low side-lobe levels
- Low Size, Weight, Power and Cost
- Supports Texas Instruments mmWave studio software
- A range of antenna configurations available

** Compared with Texas Instruments IWR68 43ISK Evaluation board*

Specification

SIZE	70 x 60 x 8 mm up to 79 x 60 x 8 mm
WEIGHT	18g
POWER CONSUMPTION	Up to 2.5 W
FREQUENCY RANGE	60 – 64 GHz Antenna return loss better than 10 dB
RADAR FIELD-OF-VIEW	Azimuth: 25˚ to 72˚ Elevation: 8˚ to 12˚
ANGULAR RESOLUTION	Azimuth from 12˚ Elevation from 3˚
RANGE RESOLUTION	From 4 cm
DETECTION RANGE	Up to 250 m for a person
SUPPLY VOLTAGE	5 V, 500 mA
CONNECTIVITY	USB

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