



DCU 150 UWB Module

Fully interoperable with IEEE® 802.15.4 HRP UWB standard.

DCU150 is based on NXP Trimension™ SR150 UWB IC, **with 3 Pcb embedded Antennas**, power management, clock control, filters and peripheral components. With DCU 150 there is no RF design required.

DCU150 module is a switch-less 2D AoA solution without extra-antenna overhead, no phase/amplitude skew, no SPST insertion loss and low-cost design

DCU150 module is a 2D RTLS device, support ToF, TDoA, AoA , with custom FW, and security with IEEE802.15.4x STS extension & Secure Element.

FEATURES:

- ✓ Easier design integration – no RF design expertise required;
- ✓ The only SR150 module with already 3 pcb RF Antennas in the market;
- ✓ Objects location in RTLS to a secure range precision of 10 cm and an angle precision of 3 degrees;

APPLICATIONS:

The perfect ANCHOR for RTLS, Industrial, Smart Home & Consumer applications.

Smart Home Devices (Point & Trigger) & Access Control (Physical and Logical).

TECHNICAL SPECIFICATION

UWB MODULE	DCU150
ANTENNA TYPE	PCB Embedded , RF: RF: 1TX/2 RX
ANTENNA NUMBER	3
RANGING MODE	2D ranging
SIZE	27 x 27.2 x 1.5mm
COMMUNICATION INTERFACE	SPI
MAIN CHIP	NXP SR150
CHANNEL	UWB Ch 5, 6, 8 and 9
FREQUENCY RANGE	6.24GHz~8.24GHz
SUPPLY VOLTAGE	1.71V ~ 1.98V
MAX OUTPUT POWER (EIRP)	14.1dBm @ CH9
OPERATING TEMPERATURE RANGE	-30 / +85 °C