



NEON Tracking Unit Specification

The NEON Tracking Unit is a waist worn sensor accessory that supports collection and processing of sensor data to deliver 3D indoor location.







Part Number	NEON-TU8B: Bluetooth Tracking Unit
	NEON-TU8U: Ultra-Wideband Tracking Uni

	NEON-1U8U: UITTa-Wideband ITacking Unit NEON-TU8B-B: Bluetooth Tracking Unit with Belt Clip
Conoral Proportios	14LO14-1000-0. DIDETOOTH HACKING OTHE WITH DELICITY
General Properties Size	2.1 x 2.4 x 0.75" (without holt clip)
Size	2.1 x 2.6 x 0.75" (without belt clip)
	52 x 66 x 19mm
Weight	2.0 oz (without belt clip)
	58 grams
Power	660 mAh internal rechargeable battery
	Operational use: BLE ~10 hours ¹ , UWB ~ 8 hours ²
Charging	Micro USB
	500mA max charge current
Temperature	Operating -20°C to 60°C
	Charging 0°C to 45°C
	Storage -20°C to 45°C < 1 month, 65 \pm 20% relative humidity, non-condensing
Battery Safety	UL1642 approved cells
	Overcharge protection
	Overdischarge protection
	Overcurrent protection
Enclosure	Lexan Resin 121R
	Silicone Perimeter Gasket
	Designed to IP67
	Designed to UL 94V-1
	Designed to UL2054
Belt Clip ³	Zytel 101L NC010 ³
UWB Radio ²	3993.6 MHz Center Frequency
	499.2 MHz Bandwidth
	-41.3 dBm Max output power
Sensors	
Dead Reckoning and	3 Axis Gyroscope
Context	3 Axis Accelerometer
	3 Axis Magnetometer
	Barometric Pressure Sensor
Ranging	BLE RSSI, Compatible with iBeacon, Eddystone, and TRX beacon
	UWB Time of Flight ²
Environmental	RoHS Compliant
Certifications	FCC Part 15 (Contains T7V1316, BXOTU8U ²);
	IMDA (N5007-17 ¹ , G5001-17 ²);
	KCC1 (MSIP-REM-BXO-NEON-TU8B);
	IC ¹ (Contains 216Q-1316);
	CE;
1.4	•

¹ Applies only to Bluetooth device

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² Applies only to Ultra-Wideband device

³ Applies only to Belt Clip