

UniTag

Rugged Bluetooth Low Energy Asset Tag



Built for assets that work in demanding places

UniTag is an industrial BLE asset tag designed for reliable tracking in harsh environments. Its compact, rugged enclosure supports tools, equipment, and inventory across warehouses, construction sites, service operations, and cold storage facilities.

- IP68 and IP69K environmental protection
- IK06 shock resistance
- Up to 5 years of battery life
- Replaceable 1,000 mAh battery
- Screw mounting or 3M adhesive installation

PRODUCT OVERVIEW

Powered by Bluetooth Low Energy 5.0, UniTag provides long-range asset visibility while supporting a durable five-year service life under default settings. A built-in accelerometer expands motion-aware use cases, while optional RFID and long-range configurations support specialized deployments.

IDEAL APPLICATIONS

TOOLS	EQUIPMENT	WAREHOUSES	COLD STORAGE
Portable tools and field equipment	Compact machinery and jobsite assets	Inventory, bins, and material handling	Assets operating in low-temperature facilities

KEY ADVANTAGES

Rugged reliability Waterproof, dustproof, high-pressure washdown capable, and shock resistant.	Flexible installation Mount with screws through the integrated tabs or attach using industrial 3M tape.
Extended operation Replaceable battery design with up to five years of life under default settings.	Long-range options Supports legacy-mode transmission up to 150 m and optional long-range mode up to 350 m.

UniTag Technical Specifications

Rugged BLE Asset Tag

HARDWARE SPECIFICATIONS

CATEGORY	SPECIFICATION	VALUE
Physical	Dimensions	60.0 x 39.2 x 17.2 mm
Physical	Environmental rating	IP68 / IP69K
Physical	Shock resistance	IK06
Physical	Color	Black
Physical	Installation	Screw mounting / 3M tape
Physical	RFID	Supported (optional)
Connectivity	Bluetooth	BLE 5.0
Connectivity	Maximum transmit power	+4 dBm (+6 dBm optional)
Connectivity	Long-range mode	Optional
Connectivity	Transmission range	Up to 150 m legacy mode / 350 m long-range mode*
Sensors	Accelerometer	Yes
Power	Power control	Magnetic Hall-effect switch
Power	LED	Red
Power	Battery capacity	1,000 mAh
Power	Replaceable battery	Yes
Power	Battery life	Up to 5 years under default settings*
Environmental	Operating temperature	-20°C to +60°C (-4°F to +140°F)
Regulatory	Certifications	FCC CE RoHS WEEE

LED RESPONSE STATUS

SCENARIO	LED COLOR	RESPONSE
Power on	Red	Blinking for 3 seconds
Device connect	Red	Blinks twice
Power off	Red	Solid for 3 seconds
Factory restore	Red	Solid for 3 seconds, then device reboots
Firmware upgrade	Red	Blinks during upgrade; solid for 3 seconds after completion, then device reboots
Low battery	Red	Blinks twice every 10 seconds

MAGNETIC POWER CONTROL

Power on Place a magnet near the Hall switch position and hold for 3 seconds. The red LED blinks for 3 seconds to confirm power-on status.

Power off Place a magnet near the Hall switch position and hold for 3 seconds. The red LED remains solid for 3 seconds to confirm power-off status.

** Transmission range and battery life are estimates based on configuration, advertising interval, environmental conditions, gateway placement, and deployment characteristics. Actual performance may vary.*