

BLE Asset Tag

The Ya Batho BLE Asset Beacon is an industry-grade Bluetooth Low Energy (BLE) tag designed for reliable asset and personnel identification in harsh underground mining environments. When attached to equipment, vehicles, or personnel gear, the beacon broadcasts a unique BLE signal that can be detected by Ya Batho locator nodes and tracking infrastructure.



As part of the Ya Batho Missing Person Locator System (MPLS), the BLE Asset Beacon contributes to last-seen location visibility, movement tracking, and end-of-shift clearance verification.

Key Features

- Bluetooth Low Energy (BLE) beacon for personnel and asset identification
- Rugged IP67 enclosure for harsh underground environments
- Replaceable CR2477 coin-cell battery
- Up to 2 years battery life (configuration dependent)
- Integrated 3-axis accelerometer for motion detection
- Magnetic switch for power on/off control
- Over-the-air firmware update capability
- Multiple BLE advertising formats supported

Technical Specifications

Parameter	Specification
Bluetooth	Bluetooth 4.2 (BLE)
Chipset	Nordic nRF52 series
BLE Range	Up to 160 m (open space)
Battery Type	Replaceable CR2477 coin cell
Battery Life	Up to 2 years (typical use)
Sensors	3-axis accelerometer, Hall-effect sensor
Ingress Protection	IP67
Operating Temperature	-20 °C to +60 °C
Material	Industrial-grade ABS / PC
Mounting Options	Screw, adhesive, lanyard

