LoRa GPS Cattle Tracker

Product Brief

Description

GA5201 series is a LoRa based (NB-IoT optional) GPS tracking device for cattle tracking with Li-SOCl2 battery. The Collar' s GPS location data will uplink to LoRaWAN gateway according to the schedule you choose , The collar is programmed wirelessly by the network server. You can control how often GPS location data are collected, can also remotely command program changes to the fix rate and mortality schedule, fix duration time, and GPS location data transmission interval.

Features

- **Communicate via LoRa , No SIM card required**

LoRaWAN™ compliant, create a reliable backup communication network for use when cell service is down , enable ranchers to track thousands to million cattle in the field without the expense of cellular subscription . Remotely modified user selectable location and data transmission schedule

- **Long battery life**

Each tracker is equipped with two replaceable 19000mah battery , battery life as long as 3 years @ 1 location per hour, A notification is sent when the battery power falls below 20% .

- **Theft Alarm**

Set a customized safe zone and get notifications on your platform when the cattle enter or leave the zone, Collar cut alert to inform owner once the collar is cut, allow ranchers of herds reduce theft of cattle.

- **IP67 Water-Proof design**

Weight just 360g, Special Collars to hold the tracker for the cow, horses, and other large animals.

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Parameters	Specification
Frequency Band	433~510MHz/868~928MHz， Optional
Battery Specs	38000mah Li – SOCl2 battery, Non rechargeable
Operating Temperature	-45~+75℃
Dimensions	185*57*53mm (Weight 360g)
Communication range	9～15KM LoS， 3～6KM in dense environment
Transmit Power	+18dBm
Modulation	LoRa Modulation Patented by Semtech
Protection Requirements	IP67
Collar size	5 cm wide Neoprene Belting
GPS positioning solution	REALTEK MG1009R,Sensitive down to -148dB
GPS accuracy	5M

Application

The LoRaWAN™ Based cattle tracking system is capable of tracking and detecting anomalies in cattle behavior at any time. Ranchers are able in real-time locate their cattle to better manage the herd and reduce cattle theft.