

ASSET TRACKING

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DESCRIPTION



GAE - has newly developed a 2.4GHz RFID active reader & to meet different needs with 2.4Ghz Active tags in vehicle access control, vehicle toll collection, healthcare, RFID asset tracking, manufacturing, personnel tracking and building security and access control applications. With an external Omni-directional antenna, this 2.4GHz reader is suitable for a number of RTLS (Real Time Location System) applications including asset tracking, warehouse management, logistics, and student management and so on.

This 2.4GHz RFID reader can ensure whether the tracking products are in the visibility range of around 30 meters from the reader or not, since it has the ability of identifying a number of active tags within 30 meters simultaneously. And by working with an Omni-directional antenna, it can identify tags in all directions, thus providing a high working accuracy.



Active RFID tags have their own internal power source, which is used to power the integrated circuits and broadcast the signal to the reader. If the reader has received the signal from tag, the reader will send the data to the server computer to locate each of the tags. Moreover, it also provides RS23

& RS485 ports for data communication. The RF tag uses the IEEE 802.15.4 standard protocol which makes the tag to function as a RFD (reduced functionality device) associating to a coordinator (Fully Functional Device/reader), periodically waking up transmitting data and sleeping again, in the same personal area network.

In all, this active RFID reader is available in operating from ISM 2.4GHz to 2.5GHz to be deployed in any indoor or outdoor environments for various RTLS applications. And it can offer an impressive long read range of up to 30 meters by integrating with an external antenna.

FEATURES

1. Suitable for Robust and secure low power wireless applications
2. Compatible to the 2.4GHz IEEE802.15.4 & Zigbee pro networks
3. Supported protocols include IEEE802.15.4, ZigBee PRO.
4. Standard application interfaces include PC/SC, Synchronous-API (on top of PC/SC)
5. Wireless applications such as Metering & Remote Control applications.
6. Communication interface RS232, RS485 & *USB.
7. Automatic wake up and transmission of programmed asset information at configured intervals to the coordinator (reader)
8. Inbuilt battery voltage level detection and transmission to ensure timely replacement
9. RF Tag with Tamper proof switch : Detection if detached from the asset

APPLICATIONS

1. Health care
2. Track and locate assets
3. Inventory control etc.,