

Product Specification



SN1001C Asset Tag for Asset Management System

1. Overview

TDK's BN2004 Asset Tag can help to manage numerous assets in factory or office area. It sends encrypted Bluetooth broadcast packets to the neighboring Gateway or Lite-Gateway, allowing you to easily confirm the asset status and location on the background web page or mobile phone APP. Ultra-small thickness and long life can ensure good use effect in various occasions.



Figure 1 Asset Tag overview

2. Features

- Location and tracking
- Long life cycle (up to 10 years)
- BLE 5.0 communication supported
- CR2032 coin battery power supply
- Ultra-small thickness with the dimensions of 55.0 x 42.0 x 16.0mm

3. Applications

- Asset management and tracking

4. Technical Specification

Item	Specification
MCU	Nordic nRF52832, Cortex M4 64MHz
Memory	64 KB RAM, 512KB Flash
Communication	BLE 5.0
Data Transfer Rate	Up to 1Mbps
Transmit power	-20~+ 4 dBm, adjusted by 4dB step
Antenna	0dBi PCB antenna, omni directional
Power supply	CR2032 coin battery, 220mAh
Operating Temperature	-20~80°C
Storage Temperature	-20~80°C
Dimensions	44.5mm x 26.5mm x 4.9mm
Mounting Type	Double sided tape

5. Mechanical Specification

All measurements are listed in millimeters [inches], unless noted otherwise.

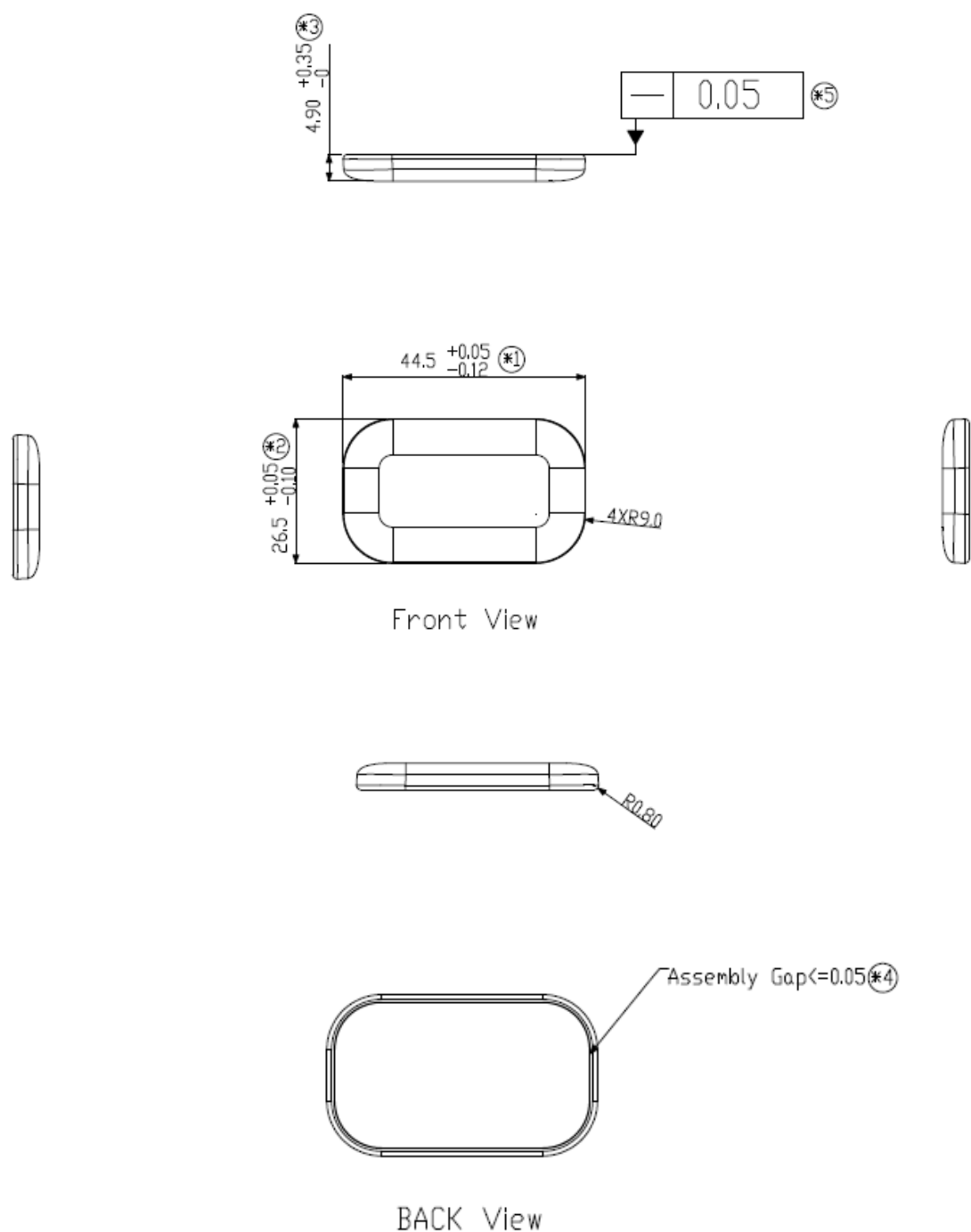


Figure 2 Dimension of Asset Tag

6. FCC Statement

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.