

IB64-BR Product Profile



Features

- Cryptographic (AES128) security tag based on industry standard ISO 18000-6C RFID technology
- Anonymous Identification and cryptographic authentication with high throughput: ≥ 150 tags/sec, single tag at ≥ 160 km/h, and multiple tags at ≥ 100 km/h
- Active tamper detection erases cryptographic keys and permanently indicates tampering
- Long distance operation up to 30meters with fixed RFID readers
- Operation at distances up to 4meters with compact, low power RFID readers
- Withstands high vibration environments; permanent adhesive backing for easy installation
- Operates with standard UHF RFID Gen2/6C readers with read, write, and inventory functionality; operates with Intermec readers with cryptographic functionality.

Description

RFID Gets Serious. If your system depends on authentic data, established cryptographic security is the only way to ensure data is authentic and valid. The IB64 Secure BAP tag employs NIST accepted Advanced Encryption Standard (AES) with 128 bit key length to encrypt and authenticate the tag identity.

Specification

- **Air-Interface:** pre-Version 2 GS1/EPC Gen2 / ISO 18000-6C
- **Dimensions:** 94.5mm x 60.3mm x 13.8mm
- **Mounting:** Self-adhesive for glass mounting (other mounting possible)
- **Battery life:** ≥ 5 years (longer battery life options available) . Also depends on the environmental condition and number of reads on the field.
- **Frequency range:** 865-928MHz
- **Memory:** 512 bits (future options for 12kbyte)
- **Maximum operating/storage temp:** -30°C to $+85^{\circ}\text{C}$ / -20°C to $+85^{\circ}\text{C}$ (extended temp. possible)
- **Environmental sealing:** IP50 (future options for higher sealing)

- **Vibration:** Mil-Std-810F