

ACM125-BlueBeam

ACM125-BlueBeam RFID tag read-write unit with integrated Bluetooth wireless communication is a high performance, totally wirefree, battery operated, portable RFID scanner for use in commercial and industrial applications. This unit is capable of reading from and writing to general 125KHz tags with Temic/Atmel T55xx transponder IC. The unit can communicate with any Bluetooth enabled PDA, Desktop PC, Laptop, Industrial PLC or mobile on a secure and reliable channel over a distance of 100m (300 ft) in Class 1 configuration.

ACM125-BlueBeam can be used in a continuous read mode to identify contactless RFID radiotags and cards, at distances up to 8cm. This RFID unit provides write support for RFID tags or cards and smart labels over Bluetooth connection. To ease development on PC platform, a set of developer tools, including software configuration manager, device driver API library and sample software VB source code are available for quick, easy integration within OEM systems. A push switch puts On the unit for specified time and Red/Green LED and buzzer indicate successful reading of a radiotag. The read data is then internally buffered or transferred to the Bluetooth enabled host, if connected. The software device driver on the host side can then pass the data on to the software middleware layer for processing.

This RFID read-write controller is used for retail, POS (point of sale), inventory management, ticketing, library, shop floor, shipping and receiving applications. The product is cost-effective, small form factor, lightweight and durable. This RFID reader+writer hardware can be customized for specific uses and as per the requirements.

Use the truly wireless *ACM125-BlueBeam* RFID read-write units for portable field applications.

Specifications:

Operating Frequency	RFID 125 KHz with Integrated Antenna; Bluetooth 2.4GHz
Power Supply Rating	Integrated 9VDC Alkaline battery, 250mA max
Power consumption	225mA in read, communicate and idling states, 90uA stopped
RF Power Max	100 mW for RFID and 15dBm Class 1 for Bluetooth
RFID Tag Read Range	8 cm for credit card size radiotag
RFID Antenna Impedance	10 ohm @ 125 KHz
Tag Compatibility	Temic/Atmel T55xx radiotags Read/Write type
Communication Interface	Class 1 Bluetooth v1.2 compatible, over 100m (320 ft.)
Data Link Security	FHSS modulation with data encryption and 16 digit PIN number; 79 channels with 1MHz interval
In-built Indications on Unit	Red/Green LED, Buzzer with Start switch
Dimensions / Color	133mm (L) x 68mm(W) x 23mm(H) Black ABS rugged body
Weight	235 gm without Battery
Operating Temperature	-20°C to +50°C (including self-generated heat)
Storage Temperature	-20°C to +50°C