Industrial Coin Bluetooth® 5.0 Beacon with Accelerometer Sensor

Tatwah Technology Co., Ltd.

Specifications	
Description	The Industrial Coin Bluetooth® IT003 Beacon corresponds to the latest generation of Bluetooth® beacons developed by Tatwah.
	The tag is compatible with Bluetooth® 5.0 standard and it is designed to full fill all requirements for asset tracking in hospitals, healthcare, logistics, item management use cases.
	Due to its optimized and ultra-low power consumption, the beacon guaranties un-surpassed battery lifetimes up to 15 months.
	Its high precision accelerometer sensor permits to detect any movements, vibrations, shocks or a specific fall.
	The beacon offers also a push button and two LEDs (red and green color). Company logos, QR codes or serial numbers could be printed on the upper side of the device.
Applications	Asset Tracking, Logistics, Inventory Control, healthcare

Electronic		
Technology	• iBeacon protocol supported Accelerometer sensor • Two LEDs: Green and Red color Push button	
Operating Frequency	Bluetooth® 2.45 GHz	
Standards	Bluetooth® Low Energy V 5.0	
Module	TWHBC01	
Battery	Reference	CR2032 non replaceable
	Lifetime	Up to 15 months depending on the Bluetooth® beacon parameters
Reading Range	• Up to 100 meters for Bluetooth® Low Energy • LOS of 200 meters	
Sensor	Accelerometer	User-selectable full scales of ±2g/±4g/±8g/±16g and is capable of measuring accelerations with output data rates from 1.6 Hz to 1600 Hz
Press Switch Button	Duress button available for events and alerts	
LEDs	Two LEDs: Green and Red color	

Physical			
Dimensions	Diameter	29.30 mm	± 0.35 mm
	Thickness	7.70 mm	± 0.25 mm
Color	Tag	White	
	Band	Light grey (pantone cool grey 6C)	
Material	Tag	ABS	
	Band	Nano-Silica	

Chemical and Mechnical			
Thermal Properties	Operating Temp.	-30°C to +60°C	-22°F to +140°F
	Storage Temp.	-30°C to +60°C	-22°F to +140°F
Environmental and Chemical Properties	IP65 (1m, 24h)		
	Saltwater, salt mist, acetic acid water, carbonated sodium water, sugared water, ethylene glycol, humidity 95% (50°C, 24h)		
Certificates	Bluetooth®, CE, FCC, ISED, RoHS & Reach conform. Conflict free sourcing www.conflictfreesourcing.org		

Options		
Firmware	ALCATEL-LUCENT_multiple-tag-firmware_1.3_HEX01_IT003.hex	
Pre-configuration mode	ALCATEL-LUCENT_multiple-tag-firmware_1.3_HEX01_IT003.hex + TAG TURNED OFF (customer activate the tag at reception)	
Lasering	Front	QR code and Mac address in Hex (refer to layout)
NFC	None	

Others		
Beacon attachment	White strong 3M adhesive	
QR Code	Content	Mac address in Hex
	Example	C0:00:46:99:AD:09
Layout	ALEFW-WB400-01(01 for the revision of the FW)	

Part Number		
ALE pn	OAL-AT-COIN-50	Industrial Coin Bluetooth® IT003 Beacon with Accelerometer sensor
Tatwah PN	BLE-IT003-002 BEA0542	Industrial Coin Bluetooth® IT003 Beacon with Accelerometer sensor

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