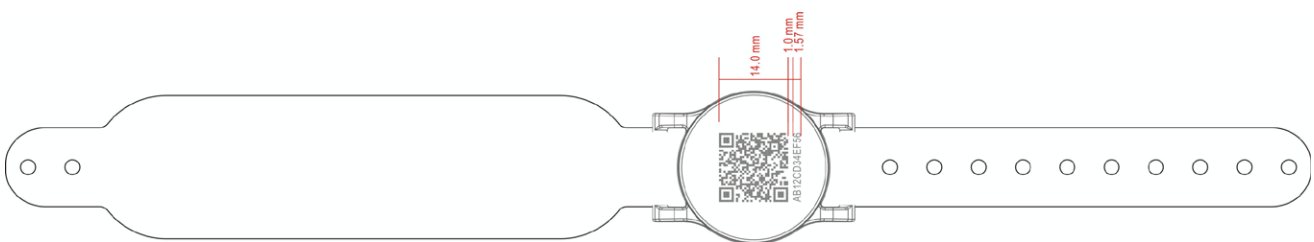


Smart IoT Bluetooth® 5.0 One-Way Nano Silica Wristband

Tatwah Technology Co., Ltd.



Specifications

Description

The Smart IoT nano-silica one-way Wearable Bluetooth® WB400 corresponds to the latest generation of Bluetooth® beacons developed by Tatwah. The tag is compatible Bluetooth® 5.0 standard and it is designed to full fill all requirements for single use secure access control use cases.

Due to its optimized and ultra-low power consumption, the beacon guaranties un-surpassed battery lifetimes. Its high precision accelerometer sensor permits to detect any movements, vibrations, shocks or a specific fall. The accelerometer parameters are configurable in order to adjust them to the final needs of the application.

All beacon configuration parameters can be updated over-the-air through a specific profile service. This customized version is delivered with a specific nano-silica one-way wristband for single use only. To remove the wristband, it has to be cut.

Applications Single use access control application

Electronic

Technology

- Eddystone URL, iBeacon protocols supported
- Accelerometer sensor
- 2 LEDs

Operating Frequency Bluetooth® 2.45 GHz

Standards Bluetooth® Low Energy V 5.0



Module TWHBC01

Battery

Reference	CR2032
Lifetime	Up to 5 years depending on beacon configuration

Reading Range

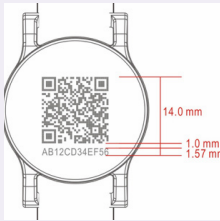
- Up to 100 meters for Bluetooth® Low Energy
- LOS of 200 meters

Sensor Accelerometer sensor

Press Switch Button Thermotransfer technology

Datasheet

Smart IoT Bluetooth® 5.0 One-Way Nano Silica Wristband

Physical		
Dimensions	Tag	41.00 x 31.00 mm
	Band	265.00 x 29.00 mm
Color	Tag	White
	Band	Light grey (pantone cool grey 6C)
Material	Tag	ABS
	Band	Nano-Silica
Chemical and Mechanical		
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	
		Saltwater, salt mist, acetic acid water, carbonated sodium water, sugared water, ethylene glycol, humidity 95% (50°C, 24h)
Certificates	<ul style="list-style-type: none"> • Bluetooth®, CE, FCC, ISED, RoHS & Reach conform. • Conflict free sourcing www.conflictreesourcing.org 	
Options		
Firmware	ALEFW-WB400-01(01 for the revision of the FW)	
Pre-configuration mode	ALEFW-WB400-01" + TAG TURNED OFF (customer activate the tag at reception)	
Lasering	Front	QR code (refer to layout watch part)
	Back	N/A
NFC	None	
Others		
Beacon attachment	One-way PVC wristband with 2 pins closure to keep the folded straight.	
		
QR Code	Content	mac@, model (e.g. as defined in SIG Bluetooth specification), unique ID (model+ Last 5 digits of MAC), UUID, Major & Minor (default iBeacon Configuration), unique Tatwah SA ID order number (BEAxxxx-xxx_ revision)
	Example	AB:12:CD:34:EF:56,WB400,WB4004EF56,D70F4BBC-981F-4252-BC01-334EC1DF653D,5678,321, BEA0539-002
Layout watch part	ALEFW-WB400-01(01 for the revision of the FW)	
		
Part Number		
ALE pn	OAL-AT-WRIST-20	Smart IoT nano-silica one-way Wearable Bluetooth® OAL-AT-WRIST-20
Tatwah PN	BLE-WB400-002 BEA0539)	Smart IoT nano-silica one-way Wearable Bluetooth® WB400-002 (BEA0539)