

TECHNICAL DATASHEET



iTAGXB BLE



Eddystone

Intrinsically safe BLE tag for tracking large assets or as a location anchor for BLE based RTLS.

Ultra rugged design suitable for a range of industrial applications

Visible alerts to assist with location tracking

Can be used as part of a wider iBEACON or Eddystone based RTLS

Supports existing IOT infrastructure

**ATEX/IECEX,
UKCA and cMETus
certified**

Easy to install

**Rugged EX
construction**

**Long
battery life**

**Replace batteries
in hazardous area**

**Equipped with
accelerometer**



Bluetooth Low Energy (BLE), the power-efficient version of Bluetooth, offers compatibility with a wide range of devices and infrastructure. With iTAG XB10 / XB20 / XB30 / XB40 BLE tags, you can communicate effortlessly, using Eddystone and iBEACON protocols, with any BLE-compatible device, including phones, tablets, and off-the-shelf apps. BLE beacons seamlessly integrate with BLE gateways, which connect to networks over Wi-Fi, Ethernet, Cellular etc, to cloud or locally hosted client application servers. This can be used for tracking of assets and personnel in hazardous areas, expanding your IoT capabilities.

Using with Extronics hybrid RTLS

If you are looking to deploy a solution that covers large open spaces, built up or indoor spaces in hazardous areas, then the iTAG XB Range of tags can be used alongside our iTAG X-Range of hybrid location technology tags. BLE anchors can also be used to trilaterate the X-Range tag worn by the person or asset providing increased accuracy as part of the hybrid solution. Accompanied by our proprietary Extronics Location Engine (ELE), users can define hybrid zones of their site using the BLE tags to increase the location accuracy.

Utilise the iTAG XB40 as a location anchor with your hybrid RTLS solution to improve location accuracy or as an alternative infrastructure to enable BLE trilateration.

When used with Mobileview it allows you to locate asset and personnel from a single platform. Use historical data to inform process flows and improve operational efficiency.



The iTAG XB10 / XB20 / XB30 / XB40 BLE asset tags support Eddystone and iBEACON communication protocol enabling a fully battery operated cost effective way of tracking everything in hazardous areas.

XB10

XB20

XB30

XB40

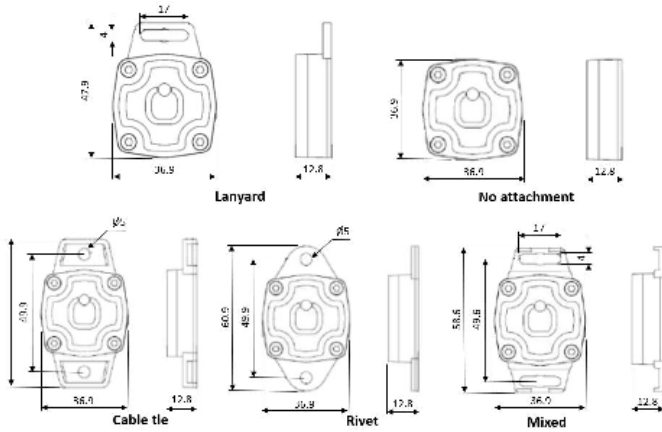


SPECIFICATION

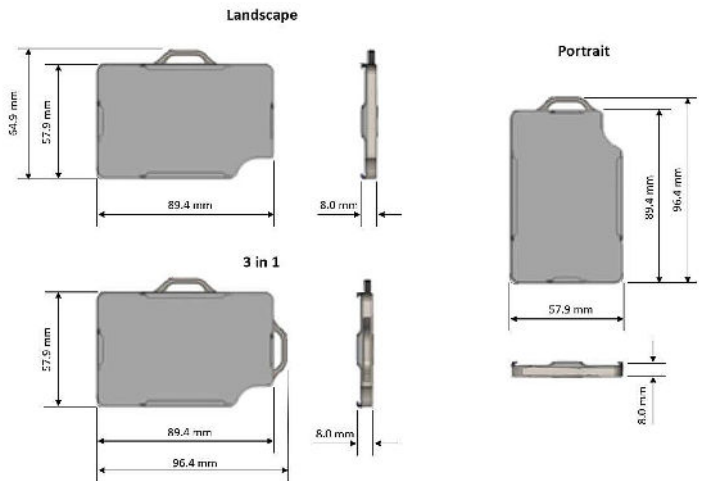


Model	XB10	XB20	XB30	XB40
Certification	Ex I M1 Ex ia I Ma Ex II 1G Ex ia IIB T4 Ga Ex II 2G Ex ib IIC T4 Gb Ex II 1D Ex ia IIIC T ₂₀₀ 135°C Da-20°C ≤ Ta ≤ +55°C Cl I, II, III Div 1 groups C-G, T4, Ex ia Cl I Zone 0 AEx ia IIB T4 Ga Zone 20 AEx ia IIIC T135°C Da Ex ia IIB T4 Ga Ex ia IIIC T135°C Da Cl I, Div 2 Groups A-D, T4 "Intrinsically Safe" Cl I Zone 1 AEx ib IIC T4 Gb Ex ib IIC T4 Gb -20°C ≤ Ta ≤ +55°C	Ex I M1 Ex ia I Ma Ex II 1G Ex ia IIC T4 Ga Ex II 1D Ex ia IIIC T ₂₀₀ 135°C Da -20°C ≤ Ta ≤ +55°C Cl, II, III Div 1 groups A-G, T4, Ex ia Cl I Zone 0 AEx ia IIC T4 Ga Zone 20 AEx ia IIIC T135°C Da Ex ia IIC T4 Ga Ex ia IIIC T135°C Da -20°C ≤ Ta ≤ +55°C		
Radio Certification	ETSI EN 300 328 V2.2.2 (RED) ETSI EN 301 489-17 V3.2.4 (2020-09) (EMC)		ETSI EN 300 328 V2.1.1 (RED) ETSI EN 301 489-1 V2.2.1 (2016-11) (EMC)	ETSI EN 300 328 V2.2.2 (RED) ETSI EN 301 489-17 V3.2.4 (2020-09) (EMC) ANATEL
Battery type	Panasonic CR2032 coin cell. Replaceable in hazardous area	Fanso CP304544 / HCB CP304544 Non-replaceable sealed prismatic battery	Fanso CP502440 Non-replaceable sealed prismatic battery	2 x SAFT LS14500 AA batteries Replaceable in hazardous area
Battery capacity	225mAh 3.0v	1300mAh 3.0v		5200mAh 3.6v
Battery Life	Static asset - Up to 5 years depending on configuration Personnel - Up to 1.5 years depending on configuration	Greater than 5 years depending on configuration		
Material	Polycarbonate	PC / PBT	PC / PBT with TPU overmould	
Colour	Black			
Weight	19.3g	53g	59g	222g
Mounting Options	Lanyard Adhesive Rivet Cable Tie	Portrait and/or landscape lanyard	Rivet	Rivet Cable Tie
Rating	IP68 MIL-STD -810 G			
Operating temperature	-20°C to +55°C		-40°C to +55°C	-20°C to +55°C
Configurable parameters	Transmission Power Beacon type Default beacon rate Accelerometer threshold Sleep/Awake status Device name			
User interface	LED - Red/Green			
Radio protocol	Bluetooth BLE			
Supported protocol	iBEACON Eddystone			

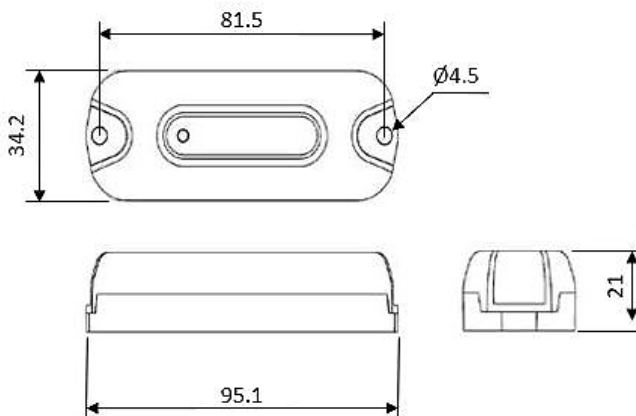
XB10



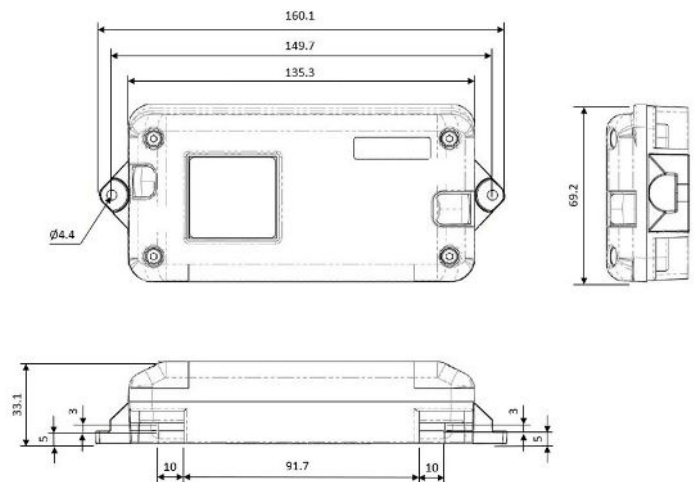
XB20



XB30



XB40



ORDERING INFORMATION



ITAGXB10-B-L	Hazardous Area iBEACON and Eddystone BLE tag for assets and personnel incorporating lanyard mounting attachment. Certified to ATEX, IECEx, UKCA and cMETus.
ITAGXB10-B-A	Hazardous Area iBEACON and Eddystone BLE tag for assets incorporating adhesive mounting attachment. Certified to ATEX, IECEx, UKCA and cMETus.
ITAGXB10-B-R	Hazardous Area iBEACON and Eddystone BLE tag for assets incorporating rivet mounting attachment. Certified to ATEX, IECEx, UKCA and cMETus.
ITAGXB10-B-CT	Hazardous Area iBEACON and Eddystone BLE tag for assets incorporating cable tie mounting attachment. Certified to ATEX, IECEx, UKCA and cMETus.
ITAGXB10-B-M	Hazardous Area iBEACON and Eddystone BLE tag for assets incorporating 3-in-1 mounting attachment (Lanyard, Rivet and Cable Tie). Certified to ATEX, IECEx, UKCA and cMETus.
ITAGXB20-B-L	Hazardous Area iBEACON and Eddystone BLE personnel badge tag incorporating landscape lanyard mounting position. Non-replaceable battery. Certified to ATEX, IECEx, UKCA and cMETus.
ITAGXB20-B-P	Hazardous Area iBEACON and Eddystone BLE personnel badge tag incorporating portrait lanyard mounting position. Non-replaceable battery. Certified to ATEX, IECEx, UKCA and cMETus.
ITAGXB20-B-PL	Hazardous Area iBEACON and Eddystone BLE personnel badge tag incorporating landscape/portrait lanyard mounting position. Non-replaceable battery. Certified to ATEX, IECEx, UKCA and cMETus.
ITAGXB30-B	Hazardous Area iBEACON and Eddystone BLE tag for assets. Non-replaceable battery. Certified to ATEX, IECEx, UKCA and cMETus.
ITAGXB40-B	Hazardous Area iBEACON and Eddystone BLE tag for large valuable assets or as a location anchor for BLE based RTLS. Certified to ATEX, IECEx, UKCA and cMETus
ITAGXB40-B-IND	Safe Area iBEACON and Eddystone BLE tag for large valuable assets or as a location anchor for BLE based RTLS
Accessories	
X130180	2 pack of SAFT LS14500 for ITAGXB40
All accessories are optional and will be priced separately - Contact Extronics for more information.	