

CargoBeacon HE – Cellular freight data logger/gateway

CargoBeacon® HE

CargoBeacon HE is a new generation freight data logger and gateway, designed to monitor and secure the quality of valuable goods in transit.

Based on the latest mobile and cellular technologies, CargoBeacon HE monitors temperature, humidity and shock/motion during transport. This high-end solution makes it easier than ever knowing your goods expected condition on arrival – without having to break open the packaging. Simply attach the CargoBeacon using it's snap-on bracket, activate it and off it goes!

During transport, environmental data is continuously recorded, along with a time stamp and positional information. Its data is automatically synchronized to the globally available CargoBeacon Portal, using its **built-in cellular modem**.

CargoBeacon HE is ideal as a **gateway solution**, gathering and synchronizing data from our non-cellular loggers. Just mount it in your carrier or in the goods arrival hall for an industrial and maintenance free synchronization of logger data.

Applications: Valuable or fragile industrial products, Cold chain transports, warehouses, arrival halls and more ...

How's your cargo? cargo-beacon.com

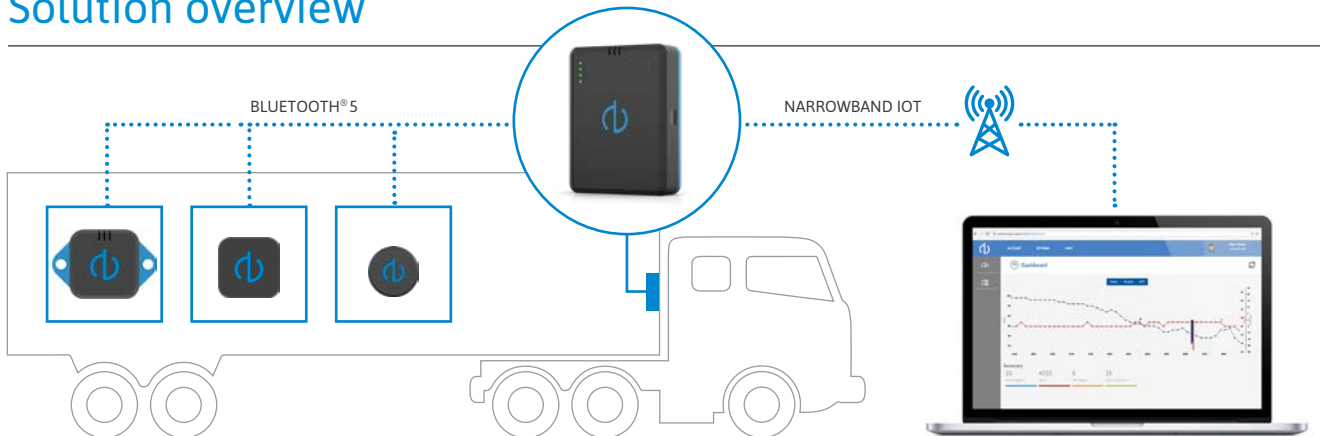


FEATURES	LB	CC	ID	HE
Smartphone App	•	•	•	•
Temperature sensor	•	•	•	•
- EN13485 standard		•		
Humidity sensor			•	•
Shock/motion sensor			•	•
Bluetooth® LE	•	•	•	•
NarrowBand IoT				•
Positioning				•
Rechargeable				•

CargoBeacon® HE

PRELIMINARY

Solution overview



CargoBeacon data loggers

The loggers are attached to the packages inside the carrier. They continuously record environmental data and send it to the CargoBeacon HE Gateway over Bluetooth®.

CargoBeacon HE

CargoBeacon HE receives all data from the loggers then automatically sends it through to the CargoBeacon Portal, using its built-in cellular modem.

CargoBeacon Portal

All data gets visualized on the cloud-based CargoBeacon Portal – the perfect analysis tool for continuous improvements and customer care.

Technical specifications

GENERAL	
Battery Life:	1 Year – 2pcs rechargeable 18650 Li batteries
Material:	Polypropylene
Operating Environment:	-40°C to +85°C, 0 % RH to 100 % RH non-condensing
Approvals:	CE, FCC, IC
Rechargeable:	Yes. +5V via micro USB or contactors (TBD)
Mounting:	Snap on bracket (TBD)
SHOCK	
Acceleration Measurement Range:	+/-16 g (TBD)
Channels:	3-axis
Sensitivity:	192 mg
Shock accuracy	Sensitivity change vs. temperature ± 0.01 %/°C. Typical zero-g level offset accuracy ± 40 mg
TEMPERATURE	
Range:	-40°C to +85°C
Accuracy:	$\pm 0.5^\circ\text{C}$, 15 to +40°C $\pm 1^\circ\text{C}$, 0 to +60°C

HUMIDITY	
Range:	0 % RH to 100 % RH
Accuracy:	± 4.5 % rH, 20 to +80 % rH. ± 6 % rH otherwise
BLUETOOTH®	
Version:	5.0
Range:	Class2 <10m (TBD)
Type:	BLE – Bluetooth® Low Energy
CELLULAR	
Type:	NarrowBand IoT
Frequency:	850MHz (TBD)
SIM-Card:	Included in CB subscription (TBD)
POSITIONING	
Type:	Cellular/GPS/GLONASS (TBD)
DIMENSIONS	
Width:	60 mm (TBD)
Height:	80 mm (TBD)
Depth:	20 mm (TBD)



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