

COREInsight® BLE Pallet Tag Hardware Specification

COREInsight® Bluetooth Low Energy (BLE) tags are not active advertising BLE tags. The COREInsight® Pallet tag is passive until in range (approx.100 meters) of a reader.

COREInsight® tag is a BLE tag that listens for the presence of a reader before transmitting its payload. Once a tag has communicated with a reader it goes into a long sleep mode (neither listens nor transmits) for a period set by the reader's instruction. In the absence of a reader (i.e., in an aircraft) and not in a long sleep mode the tag will revert to short sleep mode, where it listens for a reader every few seconds.

The COREInsight® Pallet tag includes a movement sensor, to dynamically adjust sleep times and detect abnormal movement to further its capabilities.





Images are indicative only, actual product may vary

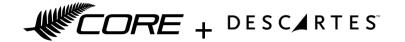
Name of the Product: Core Pallet Tag PLT002 Model: Description: Bluetooth Low Energy (BLE) tag used to monitor movement of goods and equipment. Each tag is made up of an Ublox NINA-B112 module encased in a housing. Also included is two lithium metal cell batteries. Two CR2450 Rated At 620mAh each. Battery: Total 1240mAh Size: 4.4" x 1.7" x .7" (112mm x 44mm x 19mm)

2.9 oz (85 Grams)

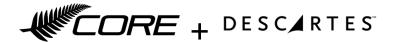
-20°C to +60°C

Weight:

Temperature Range:



Bluetooth Module:	Ublox NINA-B112	
Bluetooth Type:	Bluetooth Low Energy 5.0	
Bluetooth Sensitivity:	-95dBm	
Bluetooth Max Power Output:	+4dBm	
Bluetooth Antenna:	+2dBi SMD on Module ProAnt Antenna, Omni Directional	
Frequency Supported:	2.4GHz ISM, 40 BLE Channels & Adv. Ch. No. 37, 38, 39	
Movement Sensor:	STMicroelectronics LIS2DH12 3-axis digital output motion sensor	
Power Consumption - Max:	<7.6mA	
Power Consumption - Sleep:	3.5 uA	
Operational Life Running:	Theoretical life time of >2 years	
	Managing sleep time and lower polling rates used by COREInsight network can extend the life significantly	
NFC:	Used to read Tag ID for identification	
Transportation:	Meets IATA Dangerous Goods Regulations 2015-2016 Edition (UN3091) Exemption Requirements PI 970 Section 2. Less than 4 lithium metal cells encased in equipment. No declaration required	
Transport:	BLE Tags do not transmit until "pinged" by a Core Reader. Since a reader is not present during air or sea shipments, the tag is in a dormant state.	
FAA:	Meets turn on/turn off requirements similar to personal electronic devices (PED).	



Certifications:

Core Pallet Tag (PLT001)	Bluetooth	D037239 (PLT001)
	FCC	TBA
	IC	TBA
	CE	TBA
NINA-B112	FCC	XPYNINAB1
	IC	8595A-NINAB1
	CE / RoHS	See NINA-B1 Declaration of Conformity
	Japan Radio EC	Complies
	NCC Taiwan	CCAJ16LP6460T0
	KCC South Korea	MSIP-CRM-ULX-NINA-B112
	Anatel Brazil	MSIP-CRM-ULX-NINA-B112
	AS/NZS	Complies with AS/NZS 4268:2012/AMDT 1:2013
	ICASA	TA-2016/2760 APPROVED
	Bluetooth	D032220 (85618)