DESCARTES™

DESCARTES IoT BLE Standard Tag

Hardware Specification

The DESCARTES IoT BLE tag is a standard beacon. The tag sends out a blue tooth low energy advertisement 10 times per minute. A DESCARTES IoT reader will detect and store this beacon advert when the tag comes within range.

Images are indicative only; actual product may vary.

Product Specifications:

Name of the Product:	DESCARTES IoT Standard Tag
Model:	STD001
Description:	Bluetooth Low Energy (BLE) beacon 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 one lithium thionyl chloride metal batteries.
Battery:	One ER14505 battery rated at 3.6V and 2700mAh.
Size:	4.9" x 2" x 1" (124mm x 51mm x 26mm)
Weight:	< 3.5 oz (100 Grams)
Temperature Range:	-20˚C to +60˚C
Bluetooth Module:	Ublox NINA-B112
Bluetooth Type:	Bluetooth Low Energy 4.2

Bluetooth Sensitivity:	-95dBm
Bluetooth Max Power Output:	+4dBm
Bluetooth Antenna:	+2dBi SMD ProAnt Antenna, Omni Directional
Frequency Supported:	2.4GHz ISM, 40 BLE Channels & Adv. Ch. No. 37, 38, 39
Power Consumption - Max:	<7.6mA
Power Consumption - Sleep:	3.5 uA
Operational Life Running:	Theoretical life time of >5 years.
NFC:	Used to read Tag ID
Transportation:	Meets IATA Dangerous Goods Regulations 2015-2016 57th Edition (UN3091). Less than 4 lithium metal cells encased in equipment. No declaration required. Battery passed UN38.3 tests.
FAA:	Meets turn on/turn off requirements similar to personal electronic devices (PED).

Certifications:

Descartes Standard Tag (STD001)	Bluetooth	D037239 (STD001)
	FCC ID	XPYNINAB1
	IC	8595A-NINAB1
	CE	TBA
NINI-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)

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