



## COREInsight® READER

### Hardware Specification



Images are indicative only, actual product may vary

Name of the Product:	CoreInsight Reader
Model:	RDR001
Revisions	RDR001a, RDR001b, RDR001c, RDR001d, RDR001e
Description:	Bluetooth Low Energy (BLE) Reader used to monitor movement of goods and equipment with attached Core Tags.
Size:	8.246" L x 5.151" W x 3.125" (209.45mm x 130.84mm x 79.38mm) <i>excluding cellular antenna</i>
DC Input:	12VDC, 3A
DC Socket:	Molex Mini-fit 2way plug (Mating with Molex Mini-fit 2way receptacle)
External Power Supply:	Switching Power Supply, Input 100~240VAC 50/60Hz, Output 12VDC 3A
Power Consumption:	700mA - Idle



	2300mA - Max
Temperature Range:	0°C to +50°C
Reader Weight:	35.41 oz. (1004 grams)
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Compute Board:	Up Board
CPU:	Intel® Atom™ x5 Z8350 Processor
Memory:	32GB eMMC Flash, 4GB DDR3L RAM
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Core Communications Board:	4BLE Reader+PowerSupply Rev12-20
Indication LEDs:	Blue and Green/Red
Bluetooth Type:	Bluetooth Low Energy 4.2
Bluetooth Sensitivity:	-98dBm
Bluetooth Max Power Output:	+4dBm
Bluetooth Antenna:	< +2.8dBi Gain Antenova AMORIS External Antenna, Omni Directional
Frequency Supported:	2.4GHz ISM, 40 BLE Channels & Adv. Ch. No. 37, 38, 39
No. of BLE Modules Built-in:	4
Cellular:	Telit H910-D Mini-PCIe card
Cellular Sensitivity:	-108dBm
Cellular Max Power Output:	+33dBm (2W)
Cellular Antenna:	< +1dBi Gain EAd WTR7270 External Antenna, Omni Directional
Frequency Supported:	-GSM   GPRS   EDGE: 850, 900, 1800, 1900  -UMTS   HSPA: 800 / 850*, 900, AWS 1700, 1900, 2100 MHz
Cellular Data Rate:	< 21.0Mbps
Sim Card Size Supported:	Micro Sim
Cellular Sims Supported:	Spark Jasper / AT&T Jasper Sims



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WiFi Interface:	LB Link USB WiFi Dongle
WiFi Type:	802.11b/g/n
WiFi Security:	WPA2 Personal and Enterprise Security
WiFi TX Power:	18dBm Max
WiFi RX Sensitivity:	-95dBm Max
WiFi Frequency:	2.4-2.4835GHz
WiFi Antenna:	Built in, Omni Directional
Bluetooth Adapter:	Core BCD Dongle
Bluetooth Module:	Ti CC2650MODA
Bluetooth Type:	Bluetooth Low Energy 4.2
Bluetooth Sensitivity:	-97dBm
Bluetooth Max Power Output:	+5dBm
Bluetooth Antenna:	Integrated Antenna, Omni Directional
Frequency Supported:	2.4GHz ISM, 40 BLE Channels & Adv. Ch. No. 37, 38, 39

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UPS:	Custom S.USV UPS
Battery Backup:	1300mAh
Battery Type:	Single Cell Lithium Polymer
Runtime:	25minutes (±10minutes)

Note that UPS is only in version RDR001d and above, not included in versions; RDR001a, RDR001b and RDR001c

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Certifications:

Core Reader (RDR001)	Bluetooth	D037239 (RDR001)
	FCC	TBA
	IC	TBA
	CE	TBA
Up Board:	FCC	Part 15 Class A
	IC	ICES-003
	REACH SVH	Passed
	CE	EN55011/EN61000-6-1
		EN55022/EN55024
	RoHS	Passed
NINI-B111	FCC	XPYNINAB1
	IC	8595A-NINAB1
	CE / RoHS	<a href="#">See NINA-B1 Declaration of Conformity</a>
	Japan Radio EC	Complies
	NCC Taiwan	CCAJ16LP6460T0
	KCC South Korea	MSIP-CRM-ULX-NINA-B111
	Anatel Brazil	MSIP-CRM-ULX-NINA-B111
	AS/NZS	Complies with AS/NZS 4268:2012/AMDT 1:2013
	ICASA	TA-2016/2760 APPROVED
	Bluetooth	D032220 (85618)
Telit HE910-D	FCC	RI7HE910
	IC	5131A-HE910
	CE	1909
	REACH	Passed
	RoHS	Passed
	ANATEL	3120-11-2618
LB Link BL-WN2210	FCC	S8J-WN2210
	CE	CE Marked
Ti CC2650MODA	FCC	ZAT26M1
	IC	451H-26M1
	CE / RoHS	<a href="#">See Declaration of Conformity</a>
	Japan Radio EC	201-160413/00
		16 0093 201/00
AdapterTech 12V Supply	FCC	Part 15 Class B
	CE / RoHS	Complies