
Device Summary Report

1. Conformance

GSRN No. : 950110126000000247
Product Name : Sirit Infinity 510 UHF RFID Reader
Trade Mark : N/A
Product ID : N/A
Manufacturer : Sirit Technologies, Inc.
Client : Sirit Technologies, Inc.
Standard(s) : EPCglobal Class-1 Generation-2 UHF Protocol V1.0.9. for Communications at 860MHz to 960 MHz and EPCglobal Radio Frequency Identity Protocols Class-1 Generation-2 UHF RFID Conformance Requirements, Version 1.0.3

UHF Reader Features	
Frequency Band	European and North American
Frequency Range	860-872 MHz and 902-928 MHz
Modulation Type	DSB-ASK
Support FHSS	Yes
Environment	Multiple

2. Interoperability

Reader

Manufacturer:	SIRIT, INC.
Product Name/Model:	INfinity 510 UHF RFID Reader
Frequency Bands Tested:	862-870 MHz <input checked="" type="checkbox"/> 902 – 928 MHz <input checked="" type="checkbox"/> 950 – 956 MHz <input type="checkbox"/>
*Tested Range:	1 meter

* The distance between the reader antenna and tag used for testing

Backscatter Encoding	M	Backscatter Data Rate (kbps)	Tari (µs)		
			6.25 – 12.5	12.5 – 18.75	18.75 – 25
FM0	1	640 – 320	Mod: PR PIE:2:1 DR:64/3 Funct: P **Monza Tag, Monza IC Raflatac G2, UCODE EPC G2 Large Rigid Tag-1T04U004TT001A, Monza IC		
		320 -256			
		256 – 160			
		160 – 40			
Subcarrier	2	320 – 128	Mod: PR PIE:2:1 DR:64/3 Funct: P **Monza Tag, Monza IC Raflatac G2, UCODE EPC G2 Large Rigid Tag-1T04U004TT001A, Monza IC		
		128 – 20			
	4	160 – 64			
		64 – 10	Mod: DS PIE:1.5:1 DR:8 Funct: P **Monza Tag, Monza IC Raflatac G2, UCODE EPC G2 Large Rigid Tag-1T04U004TT001A, Monza IC		
		80 – 32			
		32 – 5			

** Tag name, certified IC

Appendix: Keys

DS	DSB-ASK
SS	SSB-ASK
PR	PR-ASK
X:1	PIE ratio

Optional Gen 2 functionality indicated under Funct:

P Access passwords supported

U User memory supported

WT Write-able TID supported