

Device Summary Report

1. Conformance




GSRN No. : 950110126000000896
Product Name : Mojix RFID Reader System – STAR 1000
Trade Mark : N/A
Product ID : N/A
Manufacturer : Mojix, Inc.
Client : Mojix, 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 1.0.4

Reader Conformance Badge	
Reader or Module:	Reader
Intended Operating Region:	US
Frequency Range:	902-928 MHz
Modulation Types:	PR-ASK, DSB-ASK
Tari's:	6.25 us, 12.5 us, 25us
Backscatter Encoding Support:	FM0
Frequency Scheme:	FHSS
Temperature Range:	-25C to 40C
Environment:	Single, Multiple
Optional Command Support:	Access, BlockWrite, BlockErase

Report No.: STAR 1000 6.12.2008		Page: 1 of 4
---	--	--------------

Backscatter Encoding	M	Backscatter Data Rate (kbps)	Tari (µs)				
			6.25	12.5	25		
FM0	1	320	PR/1.5:1/8				
	1	160		PR/1.5:1/8			
	1	80			DS/1.5:1/8		
	1						
	1						
	1						
Sub carrier							
Sub carrier (DI environment)							

Key:

-  Dense interrogator mask met
-  Multiple interrogator mask met
-  Single interrogator mask met

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

- 8 DR=8
- 64 DR=64/3

2. Interoperability

Reader

Manufacturer:	Mojix, Inc.
Product Name/Model:	STAR 1000
Frequency Bands Tested:	862-870 MHz <input 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			
		320 -256	Mod: PR PIE:1.5:1 DR:8 Funct: P,U, WT **Monza Tag, Monza 2; Raflatac G2, UCODE G2 XM Large Rigid Tag-1T04U004TT001A, Monza IC		
		256 – 160			
		160 – 40	Mod: PR PIE:1.5:1 DR:8 Funct: P,U, WT **Monza Tag, Monza 2; Raflatac G2, UCODE G2 XM; Large Rigid Tag-1T04U004TT001A, Monza IC	Mod: DS PIE:1.5:1 DR:8 Funct: P,U,WT **Monza Tag, Monza 2; Raflatac G2, UCODE G2 XM; Large Rigid Tag-1T04U004TT001A, Monza IC	
Subcarrier	2	320 – 128			
		128 – 20			
	4	160 – 64			
		64 – 10			
	8	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