

Device Summary Report




1. Conformance

GSRN No. : 950110126000000872
Product Name : Minimization Passive RFID
Trade Mark : N/A
Product ID : N/A
Manufacturer : Industrial Technology Research Institute
Client : Industrial Technology Research Institute
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: | Module |
| Intended Operating Region: | US |
| Frequency Range: | 902-928 MHz |
| Modulation Types: | PR-ASK |
| Tari's: | 25us |
| Backscatter Encoding Support: | Sub-carrier |
| Frequency Scheme: | FHSS |
| Temperature Range: | -25C to 40C |
| Environment: | Single |
| Optional Command Support: | N/A |

| Backscatter Encoding | M | Backscatter Data Rate (kbps) | Tari (μs) | | | | | |
|------------------------------|---|------------------------------|-----------|-----------|--|--|--|--|
| | | | 6.25 | 25 | | | | |
| FM0 | 1 | | | | | | | |
| | 1 | | | | | | | |
| | 1 | | | | | | | |
| | 1 | | | | | | | |
| | 1 | | | | | | | |
| | 1 | | | | | | | |
| Sub carrier | 4 | 62.5 | | PR/2:1/64 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 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: | Industrial Technology Research Institute |
| Product Name/Model: | Minimization Passive RFID |
| 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 | | | | |
| | | 256 – 160 | | | | |
| | | 160 – 40 | | | | |
| Subcarrier | 2 | 320 – 128 | | | | |
| | | 128 – 20 | | | | |
| | 4 | 160 – 64 | | | | |
| | | 64 – 10 | | | Mod: PR PIE:2:1 DR:64/3 Funct: P **Monza Tag, Monza 2 IC Large Rigid Tag-1T04U004TT001A, Monza IC | |
| | | 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