

Impinj Reader Chip Portfolio



E910



E710



E510



E310

| | | E910 | E710 | E510 | E310 |
|-----------------------|--|---|------|------|-------|
| SPECIFICATIONS | Air interface protocol | RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant | | | |
| | Receive sensitivity ¹ (dBm) | -95.5 | -91 | -86 | -79.5 |
| | Maximum read rate ² (tags per-second) | 1000 | | 700 | 250 |
| | Typical power consumption (watts) | 0.5 | | | |
| | Package type | 56-pin QFN | | | |
| | Package size (mm) | 6 x 6 | | | |
| FEATURES | Self-jammer cancellation | ✓ | ✓ | ✓ | ✓ |
| | Reader modes | 15 | 15 | 11 | 5 |
| | RAIN RFID integration | Radio, Modem, MAC, Baluns, and Power Detectors | | | |
| | Pin- and Software-Compatible | Impinj E910, E710, E510, E310 | | | |
| | Worldwide region support | ✓ | ✓ | ✓ | ✓ |

¹Receive sensitivity measured using CISC test with 90% PSR at chip receive pins, assuming ideal antenna condition with >22 dB return loss, 1 meter cable, 11 dB path loss, FCC DRM reader mode

²Maximum tag read rate measured over the air with a large tag population in a quiet RF environment