

# Impinj Reader Chip Portfolio



**E710**



**E510**



**E310**



**R2000**



**R500**

|                       |  | RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant |     |     |               |     |
|-----------------------|--|---|-----|-----|---------------|-----|
| <b>SPECIFICATIONS</b> | Air interface protocol                 | RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant |     |     |               |     |
|                       | Receive sensitivity <sup>1</sup> (dBm) | -88   | -82 | -75 | -84           | -68 |
|                       | Maximum read rate (tags per-second)    | 950 <sup>2</sup>  | 550 | 250 | 900           | 190 |
|                       | Typical power consumption (watts)      | 0.5   |     |     | 1.5           | 1.1 |
|                       | Package type                           | 56-pin QFN  |     |     | 64-pin QFN    |     |
|                       | Package size (mm)                      | 6 x 6   |     |     | 9 x 9         |     |
| <b>FEATURES</b>       | Self-jammer cancellation               | ✓   | ✓   | ✓   | ✓             |     |
|                       | Reader modes                           | 8   | 7   | 5   | 4             | 4   |
|                       | Impinj adaptive tag access             | ✓   | ✓   | ✓   |               |     |
|                       | RAIN RFID integration                  | Radio, Modem, MAC, Baluns, and Power Detectors          |     |     | Radio + Modem |     |
|                       | Pin- and Software-Compatible           | E710, E510, E310  |     |     | R2000, R500   |     |
|                       | Worldwide region support               | ✓   | ✓   | ✓   | ✓             | ✓   |

<sup>1</sup>Sensitivity measured with 10dBm antenna reflection, at chip receive pins, FCC DRM RF Mode, 99% success rate

<sup>2</sup>950 tag per-second RF Mode in Impinj E710 firmware version 1.1