

Impinj Reader Chip Portfolio

R2000 and R500 are not recommended for new designs.



E910



E710



E510



E310



R2000



R500

		E910	E710	E510	E310	R2000	R500
SPECIFICATIONS	Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant					
	Receive sensitivity ¹ (dBm)	-94	-88	-82	-75	-84	-68
	Maximum read rate ² (tags per-second)	1000		700	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	
FEATURES	Self-jammer cancellation	✓	✓	✓	✓	✓	
	Reader modes	12	12	9	5	4	4
	Impinj adaptive tag access	✓	✓	✓	✓		
	RAIN RFID integration	Radio, Modem, MAC, Baluns, and Power Detectors				Radio + Modem	
	Pin- and Software-Compatible	Impinj E910, E710, E510, E310				Impinj R2000, R500	
	Worldwide region support	✓	✓	✓	✓	✓	✓

¹Sensitivity measured with 10dBm antenna reflection, at chip receive pins, FCC DRM Reader Mode, 99% success rate

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