

Impinj Reader Chip Portfolio

R2000 and R500 are not recommended for new designs.



E710



E510



E310



R2000



R500

		RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant				
		E710	E510	E310	R2000	R500
SPECIFICATIONS	Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant				
	Receive sensitivity ¹ (dBm)	-88	-82	-75	-84	-68
	Maximum read rate ² (tags per-second)	1,000	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	11	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 E710, E510, E310			Impinj R2000, R500	
	Worldwide region support	✓	✓	✓	✓	✓

¹Sensitivity measured with 10 dBm 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