

*These are high performance and energy efficient RAIN RFID reader modules designed for both handheld and fixed readers applications. Each module is engineered based on MTI MS710 Dual-Core SiP with the newest generation Impinj E710 die inside.*

### RFID CHARACTERISTICS & PERFORMANCE

<b>STANDARDS</b>	EPC Gen2/v2, ISO 18000-63	<b>RF OUTPUT POWER</b>	Up to 33 dBm; adjustable in 0.1 dBm steps
<b>CHIPSET</b>	MTI MS710 SiP with Impinj E710 die inside	<b>READ RATE &amp; SENSITIVITY</b>	≥ 1,000 tags/sec, -88 dBm
<b>INPUT POWER</b>	5V 1.4A max	<b>FREQUENCY</b>	860 ~ 930 MHz

### CONNECTIVITY

<b>INTERFACE</b>	14-Pin 1.0 mm Pitch FPC	<b>ANTENNA CONNECTOR</b>	MMCX Receptacle, 50 Ω, Mono-Static
<b>PROTOCOL</b>	UART, Baud Rate 921600 bps	<b>I/O</b>	4X GPIO

### PHYSICAL & ENVIRONMENT CHARACTERISTICS

<b>DIMENSIONS &amp; WEIGHT</b>	M87P1: 37.5 (W) x 55.5 (L) x 4.3 (H) mm; 13.7 g M87P4: 45 (W) x 70 (L) x 4.3 (H) mm; 21.8 g M87P8: 80 (W) x 75 (L) x 4.3 (H) mm; 32.8 g	<b>OPERATING TEMP.</b>	-20°C to 70°C
<b>MOUNTING</b>	4X Ø2.0 mm holes	<b>STORAGE TEMP.</b>	-40°C to 85°C
<b>ENCLOSURE</b>	Aluminum (optional)	<b>HUMIDITY</b>	10% ~ 85% non-condensing

### REGULATORY

**SUPPORTED REGIONS** Pre-configured for the following regions:  
 US, Canada and other regions following US FCC 47 CFR Ch. 1 Part 15  
 Europe and other regions following ETSI EN 302 208-1 (V 2.1.1)  
 Australia, Brazil, China, Hong Kong, India, Indonesia,  
 Israel, Japan, Korea, Malaysia, New Zealand, Peru,  
 Philippines, Russia, Singapore, South Africa, Taiwan,  
 Thailand, Uruguay, and Vietnam.  
 Please contact XEMA for other regions.

**COUNTRY OF ORIGIN** Made in Taiwan



Note: Specifications subject to change without notice. (v1.0.0)