

# ThingMagic® M6e-Micro, M6e-Nano and M7e-Pico Spec Comparison

ThingMagic® M6E-Micro, M6E-Nano and PICO Specification Comparison			
Product details	ThingMagic®M6E-Micro, Micro-LTE	ThingMagic®M6E-Nano	ThingMagic®M7E-PICO
Size ( mm)	46 x 26 x 4	26 x 22 x 3	18 x 21 x 3
Antenna Ports	2	1	1
RF power output	30 dBm	27 dBm	24 dBm
Power consumption (1)	<a href="#">5.5W@30dBm</a>	<a href="#">3.2W@27dBm</a>	<a href="#">2.5W@24 dBm</a>
Rx sensitivity	-75 dBm	-60 dBm	-65 dBm
Max. tag read rate	>750 tags/second (Micro LTE: 50 tags/sec)	200 tags/second	300 tags/second
Max Tag reading distance (2)	9 m	6.4 m	4.5 m
Protocols Supported (3)	RAIN (EPCglobal Gen 2V2, ISO 18000-63), ISO 18000-6B, IP-X, ATA	RAIN (EPCglobal Gen 2V2, ISO 18000-63)	RAIN (EPCglobal Gen 2V2, ISO 18000-63)
Regions supported	27 pre-configured channel plans for world-wide operation, including FCC (NA, SA) ETSI (EU) TRAI (India) KCC (Korea) ACMA (Australia) SRRC-MII (P.R. China) MIC (Japan) Customizable channel plans within 865-869 MHz and 902-928 MHz)	24 pre-configured channel plans for world-wide operation, including FCC (NA, SA) ETSI (EU) TRAI (India) KCC (Korea) ACMA (Australia) SRRC-MII (P.R. China) MIC (Japan) Customizable channel plans within 859-873 MHz and 915-930 MHz)	pre-configured channel plans for world-wide operation, including FCC (NA, SA) ETSI (EU) TRAI (India) KCC (Korea) ACMA (Australia) SRRC-MII (P.R. China) MIC (Japan) Customizable channel plans within 860-930 MHz)
Temperature range	-40 C to 60 C	-40 C to 60 C	-40 C to 60 C
IC	Impinj R2000	Impinj R500	Impinj E310
Control/Interfaces	UART: 3.3V logic levels 9.6 to 921.6 kbps USB: v.2.0 (12 Mbps)	UART: 3.3V logic levels 9.6 to 921.6 kbps	UART: 3.3V logic levels 9.6 to 921.6 kbps

- (1) When transmitting into a high quality antenna  
 (2) Using 6 dBi antenna and high quality passive tags  
 (3) License required for non-RAIN protocols

## About JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The business designs and manufactures custom embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting challenges. JADAK is based in Syracuse, New York, with sales and technical locations across the globe. For more information, visit [www.jadaktech.com](http://www.jadaktech.com). ThingMagic is JADAK's RFID line of products.

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