



# JADAK ThingMagic® RFID ThingMagic® M7E UHF RAIN RFID Module Series

## Introducing the new ThingMagic M7E modules.

The portfolio includes embedded UHF RFID modules for any application that requires low power consumption in a compact environment with higher performance read rates. Featuring enhanced sensitivity, power utilization, and faster read rates, these are the industry leading RFID modules for OEM, value added resellers, and solution providers.

MODULE	Features	Applications	Previous Model Being Replaced
<b>M7E-PICO</b> 18 mm L x 21 mm W x 3.0 mm H 	<ul style="list-style-type: none"> <li>- One of the smallest RFID modules in the industry</li> <li>- Surface mount package</li> <li>- Ultra-Low power consumption</li> <li>- Up to 300 tags per second</li> <li>- +24 dBm RF output</li> <li>- Single board-edge antenna connection</li> <li>- Features Impinj E310 RFID IC</li> </ul>	<ul style="list-style-type: none"> <li>- Mobile devices, including printers, handhelds, and sensor networks</li> <li>- Tag commissioning stations</li> <li>- Battery-operated devices</li> <li>- Smartphone accessories</li> <li>- Medical equipment for healthcare and pharmaceutical industries</li> <li>- Kiosks and vending machines</li> </ul>	<p>This is a new model with no predecessor</p> <ul style="list-style-type: none"> <li>- Introduced to meet the demands for a more compact lower cost module for mobile and battery powered applications</li> </ul>
<b>M7E-DEKA</b> 18 mm L x 21 mm W x 3.0 mm H 	<ul style="list-style-type: none"> <li>- One of the smallest RFID modules in the industry</li> <li>- Surface mount package</li> <li>- Low power consumption</li> <li>- Up to 300 tags per second</li> <li>- +27 dBm RF output</li> <li>- Single board-edge antenna connection</li> <li>- Features Impinj E310 RFID IC</li> </ul>	<ul style="list-style-type: none"> <li>- Mobile devices, including printers, handhelds, and sensor networks</li> <li>- Tag commissioning stations</li> <li>- Battery-operated devices</li> <li>- Smartphone accessories</li> <li>- Medical equipment for healthcare and pharmaceutical Industries</li> <li>- Kiosks and vending machines</li> </ul>	<p>Direct replacement for M6e-Nano</p> <ul style="list-style-type: none"> <li>- Smaller footprint and overall size</li> <li>- Increased RF performance</li> </ul>
<b>M7E-HECTO</b> 22 mm L x 26 mm W x 3.0 mm H  Photo to come	<ul style="list-style-type: none"> <li>- Drop-in compatible with the M6e-Nano with same footprint and pinout</li> <li>- Up to 300 tags per second</li> <li>- +27 dBm RF output</li> <li>- Single board-edge antenna connector</li> <li>- Features Impinj E310 RFID IC</li> </ul>	<ul style="list-style-type: none"> <li>- Mobile devices, including printers, handhelds, and sensor networks</li> <li>- Tag commissioning stations</li> <li>- Battery-operated devices</li> <li>- Smartphone accessories</li> <li>- Medical equipment for healthcare and pharmaceutical Industries</li> <li>- Kiosks and vending machines</li> </ul>	<p>Drop-in replacement for M6e-Nano</p> <ul style="list-style-type: none"> <li>- Same footprint dimensions and overall size</li> <li>- Pin to pin compatible</li> <li>- Increased RF performance</li> </ul>

# JADAK ThingMagic® RFID

## ThingMagic® M7E UHF RAIN RFID Module Series

MODULE	Features	Applications	Previous Model Being Replaced
<b>M7E-MEGA</b> 46 mm L x 26 mm W x 4.0 mm H 	<ul style="list-style-type: none"> <li>- Small form factor coupled with power performance</li> <li>- Two board-edge or two U.FL antenna connections</li> <li>- Reads up to 600* tags/ second to support fast moving tags and large tag populations</li> <li>- +30 dBm RF output</li> <li>- Read distance over 9 meters</li> <li>- Features Impinj E510 RFID IC</li> </ul>	<ul style="list-style-type: none"> <li>- Handheld devices and scanners</li> <li>- Battery-operated</li> <li>- RFID-enabled printers, desktop and portable</li> <li>- Tag commissioning stations</li> <li>- Point of sale devices</li> <li>- Smartphone accessories</li> <li>- Medical cabinets</li> </ul>	<b>Direct replacement for M6e-Micro</b> <ul style="list-style-type: none"> <li>- Same footprint dimensions and overall size</li> <li>- Pinout and interface changes</li> <li>- Increased RF performance</li> <li>- Additional GPIO's</li> </ul>
<b>M7E-TERA</b> 46 mm L x 26mm W x 4.0 mm H 	<ul style="list-style-type: none"> <li>- Small form factor coupled with power performance</li> <li>- Four board-edge or four U.FL antenna connections</li> <li>- Reads up to 800* tags/ second to support fast moving tags and large tag populations</li> <li>- +31.5 dBm</li> <li>- Read distance over 12 meters</li> <li>- Features Impinj E710 RFID IC</li> </ul>	<ul style="list-style-type: none"> <li>- Medical cabinets</li> <li>- Race timing</li> <li>- Portals with long cable runs</li> <li>- Inventory tracking</li> <li>- Conveyors requiring multiple antennas</li> </ul>	<b>Direct replacement for M6e-M and M6e-A</b> <ul style="list-style-type: none"> <li>- Same footprint dimensions and overall size</li> <li>- Pinout and interface changes</li> <li>- Increased RF performance</li> <li>- Additional GPIO's</li> <li>- Can be offered as a module on a carrier board to be drop in compatible to M6e-A</li> </ul>

### ALL MODULES:

- All modules are supported by ThingMagic Mercury API
- Support for EPCglobal Gen2V2 (ISO 18000-63) Protocol meets industry tag standards
- Configured for multiple regions, such as FCC/IC (North & South America), ETSI (European Union), and other regions including India, China, Korea, Australia and Japan

For additional information, please contact Technical Support at:  
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