

# SkyeTek RFID Readers    SkyeRead™ M1-Mini

The SkyeRead M1-Mini is world's smallest self-contained RFID reader, complete with on-board antenna, low 1-cell battery power, dual push-button operation, and contactless read/write support of 13.56MHz (HF) ISO & EPC™ tags & smart labels. With a 25mm mini footprint, & a 2.5mm ultra low profile, the M1-Mini integrates into virtually anything, extending RFID into the very fabric of everyday life.

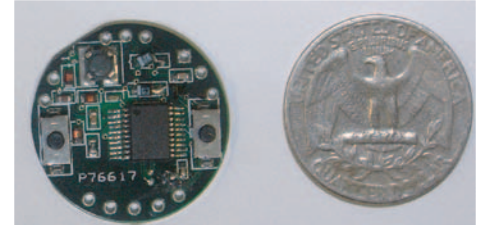
## Totally Wireless!

Designed to mate directly with the Mica2Dot™ wireless sensor network device from Crossbow Technology, the combination RFID plus Mote offers next-generation wireless networking + remote sensing capability in the smallest form factor available, with the lowest power requirement, at distances up to 50 meters. Ideal for use in distributed and ubiquitous computing solutions throughout the daily experience.

**Miniature 13.56MHz RFID Reader**  
**ISO15693   ISO14443   EPC™**

**On-Board  
Antenna**

**Wireless Host  
Connectivity**



### Tag Compatibility:

|                     |         |                     |                  |
|---------------------|---------|---------------------|------------------|
| <b>Tag-It™ HF-I</b> | 2k      | Texas Instruments   | <b>ISO15693</b>  |
| <b>ICode™ SLI</b>   | 1k      | Philips             | <b>ISO15693</b>  |
| <b>my-d™</b>        | 2k,10k  | Infineon            | <b>ISO15693</b>  |
| <b>LRI512™</b>      | 0.5k    | ST Microelectronics | <b>ISO15693</b>  |
| <b>Tag-It™ HF</b>   | 0.5k    | Texas Instruments   | Proprietary      |
| <b>ICode™ 1</b>     | 1k      | Philips             | Proprietary      |
| <b>PicoTag™</b>     | 2k,16k  | Inside Contactless  | Proprietary      |
| <b>GemWave™</b>     | id only | TagSys              | Proprietary      |
| <b>Mifare™</b>      | id only | Philips             | <b>ISO14443A</b> |

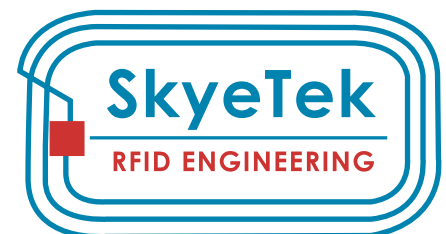
### Technical:

|                        |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Power Supply:</b>   | 3.7V to 3.2V (1-cell Li battery cell)                                                                                 |
| <b>Supply Current:</b> | 25mA @ 3.3V, 60uA Sleep                                                                                               |
| <b>Dimensions:</b>     | 2.5cm (1 inch) diameter, small footprint<br>2.5mm (0.1 inch) low profile                                              |
| <b>RF Frequency:</b>   | 13.56MHz, FCC and CE Compliant                                                                                        |
| <b>RF Data Rate:</b>   | 26kbps ISO15693, 106kbps ISO14443                                                                                     |
| <b>RF Power:</b>       | 120mW nominal                                                                                                         |
| <b>Antenna:</b>        | Internal and 50-ohm external ant. port                                                                                |
| <b>Read Range:</b>     | 7cm internal ant, 15cm external ant.                                                                                  |
| <b>Host Interface</b>  | TTL, I2C, SPI, or Wireless                                                                                            |
| <b>Host Data Rate:</b> | Serial TTL (N,8,1) = 9600 to 57600 baud rate<br>FLASH memory for firmware updates in the field<br>240 bytes user data |
| <b>Processor:</b>      |                                                                                                                       |
| <b>Memory:</b>         |                                                                                                                       |

### Ordering Codes:

|                |                                 |
|----------------|---------------------------------|
| <b>M1-mini</b> | 13.56MHz RFID Read/Write Module |
| <b>EA1</b>     | External Antenna Module 95x95mm |

Made in the U.S.A.



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