

## SkyeTek™ RFID Developer Kits and SkyeModule™ Gemini

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**Unique Micro Design Pty Ltd (UMD)** has expanded its range of SkyeTek™ RFID Developer Kits with the introduction of the Gemini series of NFC modules. All developer kits include RFID module(s) and antennas, sample RFID tags, demo software, device drivers, design guides and application notes. As the kit provides all the hardware and software required to begin, it is particularly useful for customers who are starting to integrate RFID into their products.

SkyeTek's SkyeModule™ Gemini is a low-cost, low power, MIFARE and NFC reader/writer module. The Gemini module is based on 13.56MHz HF technology using the ISO14443A and MIFARE standards. Other features include a wide input power supply range (2.0-5.5V), sleep mode current down to 10uA, easy migration to and from the SkyeModule™ M2 and M4 and supported host interfaces such as USB, TTL level RS232, SPI and I2C. As the Gemini module connector uses the Common Blade Interface it can connect to the same interface board as used by other Common Blade devices (e.g. SkyeTek SkyeModule™ M2, M4, M7, M9 and M10).

Future enhancements of the Gemini module will include support of NFC tags and NFC peer-to-peer and tag emulation modes as defined by ISO18092. This unique ability allows for active data passing between NFC enabled tablets, smart phones and other devices. Additional enhancements such as 3DES and AES authentication for MIFARE Ultralight C and Plus tags are also presently in development. Standalone software applications for the Gemini are planned for release in the coming months.

The Gemini module is designed to be embedded into devices requiring MIFARE and NFC features such as kiosk and vending machines and is ideal for medical, ticketing, safety or security applications, due to its support for secure MIFARE tags. The small size of the module allows the Gemini to fit into almost any new or existing OEM design and its low power features (deep sleep/standby mode) make it suitable for power sensitive applications.

*UMD offers a range of value added services including product design and programming, RFID tags, system design and cloud solutions.*

*For further details contact [sales@umd.com.au](mailto:sales@umd.com.au)*

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## Company Profile

Unique Micro Design Pty Ltd (UMD) is an Australian company, based in Clayton Victoria, which provides automatic data capture products and solutions using a range of technologies, encompassing:

- Radio Frequency Identification (RFID)
- Barcoding
- Mobile Computing
- Point of Service
- Wireless infrastructure
- Payment, technologies

This is achieved by using our “engineering ICT solutions” skills, which reflect our ability to:

- Design and modify electronics and microcontrollers
- Source and integrate devices from our key agencies
- Support through our professional, engineering, software and support services.

## Contact Details

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## Image Links

UMD Logo: [http://www.umd.com.au/images/UMD\\_Logo\\_ICT\\_3DBlue\\_on\\_White.jpg](http://www.umd.com.au/images/UMD_Logo_ICT_3DBlue_on_White.jpg)

Product Image:

[http://umd.com.au/images/skyetek\\_gemini.jpg](http://umd.com.au/images/skyetek_gemini.jpg)