physical made digital



BENEFITS:

- » Meets strict regulatory requirements for worldwide operation
- » Superior embeddability for fast integration and time-to-market
- » Support for the most tags with the most features
- » Low power consumption
- » Cost-effective and highly scalable
- » Common hardware and software interface with other SkyeModule readers for maximum design and solution flexibility

FEATURES:

- » 862-955 MHz
- » Smallest Footprint smaller than a matchbook
- » Extensive tag compatibility and optimization with Tagnostic® and TaglQTM
- » Minimal power consumption for maximum read range
- » Configurable output power
- » Simple firmware upgrades
- » Variety of host interfaces: TTL, USB
- » Simple and intuitive API



Product Overview

The SkyeModuleTM M7 is the world's smallest, globally compliant UHF module. Its one of-akind combination of high performance, security, and cost/space/power efficiency makes it the industry's price per performance leader, delivering the following benefits:

Ease of integration through SkyeAPI, a single library that abstracts, simplifies, and automates tag and protocol-specific functions for the programmer.

Investment protection through SkyeOS, permitting upgrading of modules in the field to grow with the evolution and cost savings in tag and reader technologies.

Tagnostic® support for more EPC Class 1 Gen 2 tags than any other comparable reader allowing customers to fully optimize their application.

TagIQTM that recognizes the unique characteristics of each tag so that read/write performance is maximized for each individual tag type.

Global SKU that provides regulatory pre-scan certification for major markets including FCC, ETSI (302 208), Korea, Taiwan, Australia/New Zealand, Singapore & Hong Kong.

Unparalleled size that is less than a standard matchbook.

Performance optimization achieved through best-in-class power control (9 – 24dBm), noise reduction technology, and power management – essential for embedded applications.

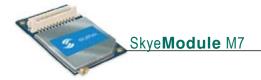
Enhanced reliability through anti-collision and dense reader mode capability.

Unprecedented price-performance and TCO, best exemplified by ReaderDNA firmware and design licensing options which allows customers to manufacture modules at cost.

Applications

The SkyeModule M7 has been created specifically for several applications that share common requirements for tag support, protocol, and performance. The M7 is an ideal solution for:

- Printing and Encoding
- Handheld Reading/Encoding
- Item-Level Inventory Management
- Patron Management
- Access Control
- Asset Management



About SkyeTek:

SkyeTek transforms traditional RFID into a networking technology enabling goods and assets to participate in a connected world. SkyeTek develops readers that serve as intelligent edge devices and software that binds policies to tagged items. By extending networks to the physical world, our customers increase revenue through their ability to predict demand, prevent counterfeiting, and personalize user interactions.

SkyeTek combines intelligent software with an inexpensive hardware platform to provide a modern RFID security model, distributed policy management engine, and network-ready readers. Enterprises deploy SkyeTek's solutions to deliver a seamless RFID edge network capable of centralized management and real-time response for applications in item tracking, product authentication, access control, and patron management.

For more information:

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www.skyetek.com



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Software

Software
SkyeAPI C/.NET API
SkyeTek Protocol v3
SkyeWare 4 developer interface
Demonstration applications

SkyeOS[™] Embedded TaglQ[™] Fast Inventory with anti-collision Field upgradeable firmware

Tag Support¹

Protocol	Verified Manufacturers
EPC C1G2 / ISO18000-6C	Alien, Atmel, Avery Dennison, Hitachi, Impinj, Omron, Rafsec, Tl

EN 302-208

DGT LP002

IDA TS SRD

RoHS

EN 61000-4-3

Specifications

Frequency 862-955 MHz
Physical Length: 53 mm Width: 36 mm Height: 9 mm Weight: 7 g
Environment Storage Temperature: -30°C to 85°C Operating Temperature: -20°C to 70°C

Host Communication Interfaces/ Data Rates TTL: 9.6-115.2 kbps USB 2.0 Full Speed: 12 Mb/s

I/O Connections 24-pin I/O Connector w/ 4 GPIO pins or 8 through-holes Regulatory² FCC 15.247 EN 301-489 AS/NZS 4268:2003 HKTA 1049 MIC 2005-50

Transponder Communication Rate EPC C1G2 / ISO 18000-6C: 40 kbps Air-interface Protocols EPC C1G2 / ISO 18000-6C

Antenna

50 Ω port with MMCX (female) VSWR 1.5:1 or lower for best performance

Current Consumption Sleep Mode: 10 mA Idle Mode: 120 mA Scan Mode: 320mA @ 24 dBm 240mA @ 18 dBm 180mA @ 12 dBm

Supply Voltage 5 V

Output Power Adjustable 9-24 dBm in 3 dB steps @ 5V operation³

Singulation Performance Up to 45 tags/second (20-30 typical) Read Range Approx. 1m with 6 dBi linearly polarized antenna

Performance dependent on tag type, configuration, and other environmental conditions

DKM7 - SkyeModule M7 Developer Kit

The developer kit for the SkyeModule M7 includes all hardware and software components required to integrate UHF RFID technology quickly and easily into any application:

Hardware

- 1 M7 Module
- 1 Host Interface Board
- 1 860-960MHz External Antenna
- 1 9V Power Supply
- 1 RS-232 Cable
- 1 USB Cable
- SkyeTek sample tag kit
- EPC Class1 Gen2 label tags

Software

- SkyeWare 4 Development &
- Demonstration Software
- Software Libraries (API): C, .NET
- Command Line Interface

Service

Technical

Notes: ¹See Tag Support Matrix for complete details, ²Pre-scan tested, some pending. Fit-for-use products require additional certification. ³Maximum power may be reduced to meet regional regulatory limits.

SkyeTek Reader Technology SkyeTek provides a variety of reader technology at both 13.56 MHz (HF) and 860- 960 MHz (UHF). ReaderDNA, a comprehensive reference design, is available for component level integration of the technology including complete design files, BOM, and test fixture. All SkyeTek readers leverage powerful firmware that drastically reduce hardware costs and are delivered in conjunction with ReaderDNA. SkyeModules are controlled via the SkyeTek Protocol, a powerful but simple communication protocol that grants the user access to all features of an RFID transponder. Further, they have been designed with flexible and modular embedded software that allows one to select only the features desired.



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