Super**Nova**

skyetek®

BENEFITS:

» Fast integration and time-to-market

» Fits into any application

» Cost-effective and highly scalable

» Common software interface with the SkyeModule™ Gemini, M2, M7, M9 and M10 readers for maximum design and solution flexibility

FEATURES:

» Miniscule footprint – smaller than a business card

» SkyeTek Adaptive Antenna Tuning

» Greatest tag compatibility with Tagnostic® and TagIQ™

» USB communication and power, no external power source required

» Simple and intuitive API

Product Overview

SkyeTek's SuperNova is the world's smallest, high-performance 2-port UHF RFID reader.

The SuperNova is an ultra-small, power efficient, EPC Class 1 Gen 2 reader/writer. Based on SkyeTek's latest UHF reader technology, this new reader brings RFID within reach with incredibly small package, 2 SMA connectors, and USB connectivity.

The SuperNova reader is designed to be easy to use so that you can deploy your RFID solution quickly and without hassle. It provides USB plug-and-play functionality by utilizing the HID drivers, and does not require any other power source besides USB to achieve maximum output power. Each antenna port can be selected via software, and utilizes SkyeTek's Adaptive Antenna Tuning, so that any antenna can be connected and automatically tuned for optimal performance.

With a footprint ¾ the size of a standard business card, the SuperNova can go where other fixed readers can't. Its small size makes it the perfect reader for POS systems, file tracking applications, portals and smart shelves and cabinets. Available at roughly half the cost of other enterprise readers, the SuperNova opens new opportunities to customers that want to take advantage of RFID's many benefits.

Features:

- 860-960MHz UHF RFID
- Reads and writes transponders based on EPC Class 1 Gen 2
- 2 SMA antenna ports with SkyeTek Adaptive Antenna Tuning
- 500mW output power, up to 10m read range
- Ultra-small form factor
- RSSI and DRM (coming soon!)
- Sleep mode current down to 10uA
- Easy migration from M7, M9 and M10
- USB power and communication
- FCC and CE compliant

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About SkyeTek:

SkyeTek, Inc continually strives to enable the pervasive adoption of RFID technology. SkyeTek's Tagnostic™ RFID readers work with most industry standard tags and smart labels; their low power requirements and small form factor make them the optimal choice for embedding into new or existing products. SkyeTek's RFID reader technology is available in several formats including reader modules, finished readers and hardware reference designs. SkyeTek markets to OEM customers in targeted vertical markets with several high-volume licensing options available.

For more information:

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Software and Security

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

SkyeOS™ Embedded
TagIQ™
Field upgradeable firmware bootloader

Tag Support

Air Interface	Manufacturer	Product Family	Tags
ISO 18000-6C	NXP	UCODE	G2XM, G2XL, G2iM, G2iL
ISO 18000-6C	Impinj	Monza	Monza3, Monza4, Monza5
ISO 18000-6C	Alien	Higgs	Higgs3, Higgs4

Specifications

Frequency
860-960MHz

Current Consumption
Sleep Mode: 10µA
Idle Mode: 50 mA
Scan Mode: 500 mA

Antenna Options
2 antenna ports, 50 Ω impedance

Physical
Length: 68mm
Width: 58mm
Height: 11 mm

Supply Voltage
5V via USB

Effective Range
Passive Tags: up to 6m
Battery Assisted Passive tags: up to 10m

Host Interfaces/Data Rates
USB: 2.0 Full Speed 12 Mb/s

Transponder Communication Rate
ISO 18000-6C
Forward: 40/160kHz
Return:
256kHz, FM0, M2, M4, M8

Compliance
FCC Part 15.247[1]
FCC Part 15 Modular Approval[1]
EN 302-208[1]

Environment
Storage Temperature: -20°C to 85°C Operating Temperature: -20°C to 70°C

Air-interface Protocols
ISO 18000-6C (EPC Class 1 Gen 2)

[1] Planned, pending final testing

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.