physical made digital

skyetek®

SkyeReader SR70

USB 2.0

⌄ **Desktop UHF RFID Reader / Writer**

FEATURES

• EPC Class 1 Gen 2 support
• Integrated antenna
• FCC certified
• USB connectivity / power
• Small footprint
• SkyeWare software
• SkyeAPI support

BENEFITS

• Reliable RFID read / write performance
• Cost effective design for affordable deployment
• Small form factor fits within typical workspaces
• Simple installation with PCs and laptops
• Easy-to-use MS Windows-based software
• Wide range of tags and feature support

Product Overview

The SkyeReader SR70 is an ideal RFID reader / writer for desktop applications. The combination of reliable performance, attractive pricing, and ease-of-use makes SR70 the price-performance leader among desktop UHF RFID readers.

Desktop RFID readers must be ready for operation within minutes of being plugged into a PC. The SR70 meets these requirements with plug-and-play USB 2.0 connectivity, industry standard EPC Class 1 Gen 2 tag support, and easy-to-use Skyereader console software. Excellent read / write performance confined within a small 5.8" by 3.5" footprint (for cross read elimination) is achieved via the integrated antenna, power control, and tag anti-collision / filtering algorithms.

The SR70 is an excellent match for reading and/or writing to tagged items and documents in desktop environments. Cost, space, and power efficiency make it particularly well suited for large scale deployments across the enterprise. An intuitive installation process and easy-to-use software allows users to setup and operate the reader without support from IT or technical staff.

Applications

The SR70 was specifically designed for the following applications:

Item-Level Inventory Management
• Shipping / receiving
• Point-of-sale check-out
• Returns / exchanges

Asset Management
• Check-in / check-out
• Entry / exit
• Service / maintenance
• De-commissioning

Patron / Worker Management
• Check-in / check-out
• Entry / exit

Tag Provisioning / Encoding
• Tag ID serialization
• SKU / Lot # / Serial # / ID # / Account # association
• Encoding metadata into tag user memory

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.

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Software

Software
SkyeReader Console
SkyeAPI C/.NET API

Firmware
Fast Inventory with anti-collision
Field upgradeable firmware

Tag Support

Protocol	Verified Manufacturers
EPC C1G2 / ISO18000-6C	Alien, Avery Dennison, Impinj, TI, UPM Raflatac

Specifications

Frequency
902-928 MHz

Physical
Length: 5.8"
Width: 3.5"
Depth: 1.0"

Environment
Storage Temperature: -30°C to 85°C
Operating Temperature: -20°C to 70°C

Host Communication
USB 2.0

Regulatory
FCC 15.247
RoHS

Communication Rate
40 kbps

Antenna
Linearly polarized 1.9 dBi gain. Pearl VSWR of 1.03
@ 916MHz 88MHz bandwidth

Singulation Performance
Up to 25 tags/second

Read Range
Up to 12 inches

Performance and range are dependent on tag type, configuration, and other environmental conditions.

Peripherals

The kit for the SkyeReader SR70 includes all hardware and software components required to integrate UHF RFID technology quickly and easily into any application:

Hardware
• 1 9V Power Supply
• 1 USB Cable
• SkyeTek sample tag kit

Software
• CD of Skyereader Console and SkyeAPI C/.NET

Support

Technical
• 30 days e-mail support

Warranty
• 1 year advanced exchange

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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Components Supply Platform

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