

Sargas

2-PORT UHF RFID READER



The ThingMagic® Sargas reader is a high-performance, 2-antenna-port, UHF reader in a low profile enclosure. Built around the ThingMagic Micro reader module, the device reads more than 750 tags per second at distances over 9 meters (30 feet) when configured with appropriate antennas. With an onboard processor, memory and removable flash storage, the reader has features designed for enterprise

EASY SYSTEMS INTEGRATION

ThingMagic Sargas reader makes system integration easier in 3 ways:

- ▶ Hardware features
- ▶ Sargas reader architecture
- ▶ Supporting software tools & API

Careful use of these capabilities can reduce hardware count and software development time in a project.

Hardware Features

The reader has extensive hardware input/output features. In addition to Ethernet, 2 USB (one host, one client), and 4 opto-isolated General Purpose Input/Output (GPIO) ports the Sargas reader has a unique HDMI port. Integrating a display into an RFID

system often involves adding a separate PC to take advantage of standard peripherals or adding a custom display. With an HDMI port built into the reader, a standard display or monitor can be directly attached reducing hardware count and development time.

Sargas Reader Architecture

The Sargas reader architecture is based on a 1 GHz ARM Cortex A8 processor running Linux kernel version 3.8. This is supported by 512 MBytes of DDR memory and 4 GBytes of FLASH memory. Onboard applications are supported via the Mercury OS C API.

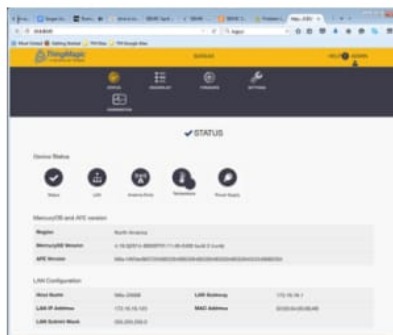
MercuryOS additions include web-based configuration & monitoring using HTTP/HTTPS and SSL/SSH-based security. Reader networking features include a TCP/IP stack plus Cisco-certified DHCP & DNS-based configuration and firmware management.

Development Tools

The Sargas reader is based on the powerful ThingMagic Micro module, and supports the Mercury API. This API is common across all ThingMagic reader modules and finished readers. Code that is developed for one system may be reused in other designs and projects.

Key Features

- ▶ Reads up to 750 tag per second
- ▶ World-wide frequency coverage
- ▶ Networking, GPIO, USB, micro SD ports
- ▶ Unique on-board HDMI interface
- ▶ Mercury API, Universal Reader Assistant software support
- ▶ Independent read and write RF controls



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