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Sargas Reader Architecture

EASY SYSTEMS INTEGRATION

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

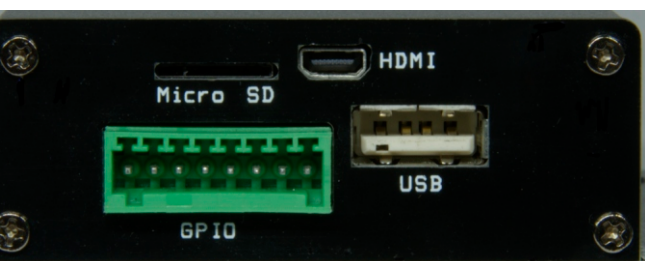
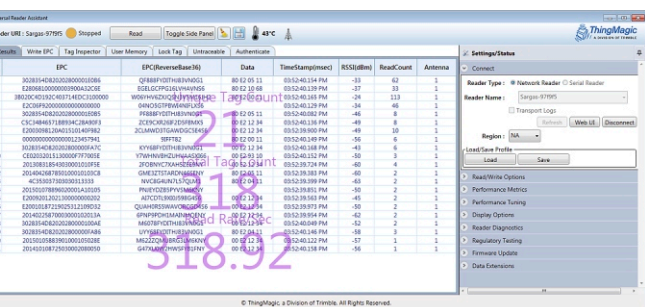
MercuryOS additions include web-based configuration & monitoring using HTTP/HTTPS and SSL/SSH-based security. Reader networking features include a TCP/IP stack plus Cisco-certified DHCP & DNS-based configuration and firmware management.

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.



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Physical & Environmental

Dimensions	87 mm L x 80 mm W x 23.8 mm H
	0.27 Kg (0.6 lbs)
Operating temperature	-20 to +60°C (-4 to +140°F)
Storage temperature	-40 to +85°C (-40 to +185°F)

RF Interface

Antenna Ports	2 ports with RP-SMA connectors
RF Power output	0 dBm to 30 dBm (1 W), ±1.0 dBm
RF Power control	Command-adjustable with separate read and write levels
Default RF Power Output	+30 dBm ±1.0 dBm
Frequency	Pre-configured for these regions: <ul style="list-style-type: none"> ▶ FCC/IC 902-928 MHz, 917.4-927 MHz, 917.5-922.5 MHz (Americas) ▶ ETSI 865.6-867.6 MHz, 869.85 MHz (EU) ▶ TRAI 865-867 MHz (India) ▶ KCC 917-920.8 MHz (Korea) ▶ ACMA 920-926 MHz ▶ SRRC-MII 920-925 MHz (P.R. China) ▶ MIC 916.7-920.9 MHz (Japan) ▶ Open (Customizable) 865-869 MHz, 902-928 MHz

RFID Parameters

Protocols	EPC Gen 2V2 ISO 18000-63 ISO 18000-6B, IPX, AEI ATA * EPC Global LLRP V1.1
Tag read rate	> 750 tags per sec. (settings dependent)
Tag read distance	> 9 m (30 ft) with appropriate antenna

* These protocols require additional licenses

Miscellaneous

Power	4.5 to 5.5 V dc, 15 W max
Regulatory	FCC/IC, CE Mark
Safety	IEC 60950-1 (ed. 2), US-17650-UL

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