

Air Interface Protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-63 (formerly 18000-6C) DSB, SSB, and PR-ASK transmit modulation modes Dense reader mode (DRM) ISO 18000-6B, Ipic, and iP-X version 1.07 not supported by Indy reference design
Performance	Includes all possible performance configurations and functionality to deliver peak performance for even the most challenging of applications. Reading rates up to 800 tags per minute.
Supported Regions	The software & hardware supports all worldwide regions, including: US, Canada, and other regions following US FCC 47 CFG Ch. 1 Part 15 Europe and other regions following. Currently FCC is officially approved, additional regions are not yet approved.
Antennas	4 high performance, high-gain, directional antennas optimized for the SMZ reader.
4 External Optional Antenna Ports	Add up to 4 additional external antennas with standard SMA connectors.
Transmit Power	+10.0 to +30.0 dBm (PoE) +10.0 to +32.5 dBm (external universal power supply)
Max Receive Sensitivity	-95 dBm
Transmit Output Power	Configurable up to 17 dBm. External power amplifier supported for high performance applications
Transmit Gain	Adjustable to > 25 dB
Modem	Configurable digital baseband
Operating Frequencies	860 – 960 MHz
Power	Low power consumption, 1100 to 880 mW configuration dependent; 200µW standby
RSSI	Tag dependent, configurable bandwidth
RX Sensitivity	-110 dBm; -93 dBm (DRM); -84dBm (DRM) with +10dBm self-jammer

Computing Specs

Network Connectivity	→ Ethernet: 10/100BASE-T auto-negotiate (full/half) with auto-sensing MDI/MDX for auto-crossover (RJ-45) → Wi-Fi: Dual-band N (IEEE 802.11b/g/n 2.4GHz, IEEE 802.11a/n 5GHz) USB		
IP Address Configuration	DHCP, Static		
Time Synchronization	Network Time Protocol (NTP)		
Management Interfaces	→ Senitron Web Management UI → Senitron serial management console port, telnet(optional), SSH, L2 Telnet (optional)	→ Syslog (optional)	
Reliable Firmware Upgrade	By Re-imaging MicroSD Card, or automated network scripts (optional)		
Management Console	→ Serial to USB (optional) → Baud rate: 115200, Data: 8 bit, Parity: none, Stop: 1 bit, Flow control: none		
USB Ports	→ 4 USB 2.0 Host (Type A) ports → USB Virtual COM Serial Port and USB drive support for embedded applications		
Power Sources	→ Power over Ethernet (PoE) IEEE 802.3af (optional) → +5 VDC @ 5000mA via external universal power supply—sold separately		
Power Consumption	Idle Typical LDC PoE at +30 dBm 3W 11.5W 6W	Power Supply at +30 dBm 3W 13.5W 6W Power Supply at +32.5* dBm 3W 15W 6W *max is 31.5 dBm for ETSI region readers	
Dimensions	(H x W x D) 40 x 14 x 4 in (101.6 x 35.5 x 10.1 cm)		
Weight	20 lbs. (320 oz.)		
Additional Specifications	→ CPU: 900MHz quad-core ARM Cortex-A7 → RAM:1GB → 4 USB ports → 40 GPIO pins	→ Full HDMI port → Combined 3.5mm audio jack and composite video → Camera interface (CSI) → Display interface (DSI)	→ Micro SD card slot → VideoCore IV 3D graphics core



Senitron Zone Monitor (SZ-2000)®

Unparalleled Performance & Features

The Senitron Zone Monitor was designed to be the most flexible, programmable, and self-contained solution in the market.

- Dual Band Wi-Fi 2.4 ghz / 5 ghz
- POE Power / External Power
- Customizable OS
- RFID Reader with 4 Built-In Antenna's + 4 Optional External Ports

- Optional: Audio/Video Output
- 4 USB Ports & Devices:
 - NFC Reader
 - Video/Audio Surveillance
 - any USB 2.0 Compatible Device

The Senitron Zone Monitor SZ-2000 is an all-in-one reader with a wide range of applications. Its' capabilities include RFID Read/Write with 4 built-In antennas, 4 RFID external antenna ports, and WIFI/Ethernet connectivity using an open operating system. Options include: NFC Reader, video & audio input & output, and 4 additional USB ports.

Wireless Wi-Fi Connectivity

Dual Band 5 ghz / 2.4ghz
 → Supports Dual-Band (IEEE 802.11b/g/n 2.4GHz, IEEE 802.11a/n 5 GHz)
 → Maximum speed up to 2.4GHz 300Mbps and 5GHz 300Mbps

Power via POE / Power Adaptor

To allow maximum flexibility, the Senitron Zone Monitor can be power via standard POE (Power Over Ethernet) or via its Power Adaptor.

4 Optional External Antenna Ports

Need additional RFID coverage to compliment your application? In addition to its 4 built-in antennas, the SZ-2000 allows up to 4 external antenna's, with standard SMA connections.

4 Optional USB Peripheral Ports – Unlimited Choices (optional)

Add any compatible USB 2.0 device to your unit to supplement and compliment your application needs.

HDMI / Composite Display Output with Audio (optional)

Attaching a Monitor to your unit is not a problem. Simply plug-in a monitor to provide a UI to your users at Hi-Def resolution.

SDK & Customizable operating System

Unlike anything else in the market, the Senitron Zone Monitor's operating system gives developers and integrators the ability to customize the unit anyway they see fit. This allows the unit to be re-purposed for various applications with unprecedented freedom.

RFID Reader Operation Modes

The SZ-2000 can be utilized to operate in several modes, depending on the applications preference and need.
 → Bucket Mode – In this mode, the SZ-2000 reads RFID tags and records them in its internal storage, and stores them independent on any server or external software.
 → Streaming Mode – in this mode, the SZ-2000 reads RFID tags and streams the reads to the server in a continuous mode.

Cutting-Edge Reader Performance using the Indy R2000 Chip

The Indy R2000 is the most advanced RFID reader chip on the market today. The Indy R2000 addresses challenging application needs with market-leading performance, with reads up to 800 tags per second.

Easy Mounting - VESA Compatible

Installing the unit is a breeze with the standard VESA mouting plates, and using any VESA mouting arm.

Computing Specs

→ CPU: 900MHZ
 → RAM: 1GB
 → Camera interface (CSI)
 → VideoCore IV 3D graphics core

**Senitron Zone Monitor
The Ultimate RFID All-In-One Solution**



Disclaimer: (1) The Senitron Zone Monitor is available for custom ordering with clients' specific requirements, (2) add-on features and capabilities may alter the final price, (3) pricing is based the total quantity of units ordered and on the final selection of the features, (4) Senitron reserves the right to distribute and sell the Senitron Zone Monitor to select preferred clients, (5) Some USB Add-on peripherals may need additional external power, as well as software drivers to operate correctly, and (6) all features and specifications described in this document are accurate to our best knowledge, in case of inaccuracies Senitron Corp. is not liable.

