



**E-Senza<sup>®</sup>**  
Technologies

Leveraging Power of Wireless<sup>®</sup>

# SenzaGate SG151

## Gateway with Integrated Monitoring Software

SG151 is the next generation SenzaGate featuring standard network and sensor management capabilities. It also offers integrated network monitoring software and data storage.

SG151 is a true plug & play product and very easy to use, there is no software installation and simple IT network configuration. After plugging the gateway into the Ethernet network the user simply opens a browser to log into the SenzaGate and gain immediate access to the SenzaWMS web server.

SG151 takes care of network management tasks for the connected SenzaBlocks like time synchronization, routing, scheduling services as well as alarm notification via SMS, E-Mail or Windows event log and manages the whole SenzaNET network onboard.

An onboard single board computer offers 512 MByte database storage capabilities and an extendable component driven software architecture lets you extend functionality & capabilities of this Gateway to a wide variety of applications.

Integrating and using the SG151 with SaaS based platforms is made very easy! A simple HTTP Post mechanism allows plugging into the cloud computing networks and start delivering data into the Software Framework in matter of minutes, and without need of any Firewall security settings!



### Application Areas

- Data Center Monitoring
- Smart Homes
- Smart Grid/Metering
- Cold Chain & Warehouse Monitoring
- Quick-serve Restaurants Monitoring
- FDA/HACCP Compliance
- Plant Monitoring
- Clean Room Monitoring
- Environmental Monitoring
- Irrigation
- Wind Turbines Monitoring



Dimensions <sup>1</sup>	174 x 197 x 50 (6.9 x 7.8 x 2.0")	155 x 105 x 40 (6.1 x 4.1 x 1.6")
Weight	560 grams (17.9 oz)	340 grams (10.9 oz)
Buffer Capacity	512 MByte	512 MByte
Maintenance Port	Ethernet	Ethernet
Ethernet <sup>2</sup>	Standard	Standard
Modbus	-	Yes
Integrated WMS	SenzaWMS Enterprise	Integrated Network Monitoring Configuration Software <sup>3</sup>
Order Code	SG151-D-W-32	SG151-L


<sup>1</sup> Excluding antenna

<sup>2</sup> GSM/GPRS/Wi-Fi available on request

<sup>3</sup> Only network configuration & calibration possible; no local data storage

## Features and Benefits

- Integrated Single Board Computer running Linux OS & preinstalled SenzaWMS software suite (Enterprise version)
- Integrated SenzaWMS software suite enables centralized configuration, calibration, linearization, localization and monitoring of all devices
- Software upgrade feature
- Easy installation, no external software necessary
- Large storage capacity of 512MByte
- Certified for use Worldwide license-free 2.4 GHz band
- Manages up to 64 SenzaBlocks

General		Wireless	
Power source	<ul style="list-style-type: none"> <li>▪ SG151: 12VDC/1A</li> <li>▪ SG151lite: 7-30 VDC, 120 mA</li> </ul>	Radio type	IEEE 802.15.4 compliant
Current draw	120 mA	Frequency band	2.4 GHz
Network size	Up to 64	Node-to-node hops (max.)	3
Enclosure rating	IP40	Line of sight range (typical)	250 m (750') node-to-node
Operating temperature range	-20°C to +65°C	In-building range (typical)	70 m (200') node-to-node
Certifications	 R&TTE 1995/5/EC, EN300 440-2 V1.1.2, ETSI EN301 489-03 V1.4.1, EN60950-1:2001 + A11:2006, EN50371:2002, CE, FCC Title 47 Part 15 authorized for use in Europe & USA	Antenna type	External dipole
<b>Ethernet</b>		Antenna connector	Reverse-SMA
Connector	RJ-45	Receiver sensitivity	-92 dBm
Physical medium	UTP	Output power (max.)	2 dBm
Data rate	10/100 Mbps	Output power (typical)	0 dBm
Protocol	TCP/IP		
<b>Software Interfaces</b>			
TCP/IP Socket			
ODBC			
HTTP Post			

## Complementary E-Senza Products and Accessories

The SG151 is fully compatible with all SenzaBlock adapters and sensors.

Accessory	Order Code	Accessory	Order Code
Antenna extension cable, 1 m (3')	ACC-RC-S-100	External power adapter	ACC-PS-SG
Antenna extension cable, 3 m (10')	ACC-RC-S-300		
2 dB dipole antenna, IP54	ACC-AT-S-54		
2 dB dipole antenna, IP65	ACC-AT-S-65		
5 dBi dipole antenna, IP54	ACC-AT-H-54		
9 dBi dipole antenna, IP54	ACC-AT-H9-54		
2-way Antenna Splitter	ACC-AT-SP		

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