

**SL Gateway-8CH** is a LoRaWAN™ IoT station developed with the aim to reduce the cost of deploying a network for small and medium size applications.

The gateway is enhanced with software layers developed by Sensing-Labs, and designed to meet the need for a plug and play LoRaWAN™ private network solution.

**SL Gateway-8CH is ready for massive devices and SL gateway deployment.**



SENLAB devices



SL-GATEWAY-8CH

API REST  
MQTT  
HTTP callback  
CSV-to-FTP

Wired  
• Ethernet  
• Modbus



Demo GUI  
Devices management  
Data management



3rd party

## Key features

✓ Plug and play	✓ Range: up to 15km	✓ Smart devices management
✓ Low cost end to end solution	<b>Dynamic data rate management for optimal devices battery lifetime</b>	✓ Quick visualization of data and network status
✓ Powerful Embedded Graphical User Interface (GUI)	✓ Embedded RF range testing tool	✓ Large choice of API to forward data to your application

<b>Casing</b>	Indoor (IP30)
<b>Dimension</b>	130 x x80 x 42mm
<b>Weight</b>	~330gr (0.73 lb)
<b>RF</b>	868Mhz band (Power +14dBm / Sensitivity -137dBm)
<b>Operating Temperature</b>	0°C to +50°C
<b>Storage Temperature</b>	-40°C to +85°C

Technical Specifications	Description
<b>Operation system (OS)</b>	Linux Debian
<b>Connectivity</b>	Ethernet (RJ45 plug) – <i>Cellular optional (contact us)</i>
<b>RF</b>	868Mhz band (Power +14dBm / Sensitivity -137dBm)
<b>Database</b>	Storage of last 100 days data
<b>Data APIs access</b>	Rest API, HTTP Callback, CSV to FTP, Modbus TCP, MQTT
<b>Graphical User Interface</b>	Light GUI for gateway configuration & management (available from local or remote access)
<b>Security</b>	Login/Password authentication (HTTP security) Firewall rules
<b>Software maintenance</b>	Easy update Advanced configuration processes
<b>Backup/Restore</b>	Backup/restore for backup or massive deployment of SLgateway
<b>CSV data export</b>	Export all data or from selected days to CSV file
<b>Remote access (VPN, DynDNS)</b>	<b>VPN</b> configuration to your own OpenVPN server. <b>DynDNS</b> configuration to your own dynDNS account
<b>RF Range tester</b>	Local LoRaWAN network coverage test dashboard
<b>LoRaWan RF modem</b>	<b>8 channels – 6 datarate per channel</b>
<b>LoRaWan network server</b>	ABP or OTAA activation mode PUBLIC or PRIVATE network type
<b>LoRaWan application server</b>	Application messages Decryption & Encryption Integrated Codecs for Senlab

Data APIs access:

