Product Data Sheet

LoRaWAN® Gateway

Cellular LoRaWAN® Solution

Designed for large and small critical deployments

The gateway, part of the Meshify Defender™ sensor solution suite, is the central communication hub for helping you safeguard your property, systems, and equipment. The gateway is designed for commercial and light industrial applications that require “always on” connectivity.

Key Features:

- NA 915, EU868, AUS923, JP920 ISM Bands
- 4-Hour Battery Backup
- Integrated Cellular 3G/4G Modem
- External LoRa Antenna
- Operational Status LED
- 27 dBM Tx Power
- LoRaWAN Protocol

meshify defender™

Meshify’s next generation LoRaWAN sensor supports a variety of property and equipment monitoring applications with long range and extended battery life.

meshify protect™

Proprietary mobile app for activating Meshify sensors and monitoring locations, even when no one is there. Available for iOS and Android.

For more information, contact:
HSB Sensor Solutions
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Technical and Functional System Specifications

Mechanical	Dimensions	4.5” x 4.5” x 1.6” (115 x 115 x 40 mm)
	Weight	12.35 oz (350 g)
	Operating Temperature	32°F to 104°F (0°C to 40°C)
	Operating Humidity	5% to 95% Condensing
	IP Rating	IP30
Physical Interface/Connections	Ethernet Backhaul	RJ-45 (10/100 BaseT)
	Cellular Backhaul (3G/4G)	Internal Antenna
	LoRa Antenna	SMA-RC
Power Requirements	Power Adapter	12V / 1A
	Internal Battery	Up to 4 Hours
LoRa Radio	ISM Bands	NA915, EU868, AS923, JP920, CH779
	Tx Power	14 dBm to 27 dBm
	Rx Sensitivity	-139.5 dBm (SF12, 293 bits/sec)
	Rx Noise Figure	3.5 dB
	Rx Linearity	-10 dBm
	Rx Dynamic Range	70 dB Analog, 100+ dB Digital
Regulatory Compliance & Carrier Certification	Regulatory	FCC, IC, CE, LoRa Alliance®
	Cellular Carrier	AT&T

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Sensor Solutions by HSB™
powered by meshify™