



CS8301 Rugged Temperature Sensor Tag



Product Features

Cold Chain temperature monitoring for the most demanding cold chain applications.

Consistent and reliable read performance when being placed on products with high water content under low temperature.

Programmable temperature thresholds and sampling rates, ranging from -24C to 64°C at 0.25°C resolution.

Compliant with EPC Gen 2 readers and can be used for product identification.

The CS8301 Rugged Temperature Sensor Tag is designed for the harshest, coldest and most demanding cold chain applications. The tag is fully enclosed by a plastic case to meet IP67 standards. LED lights indicate temperature violations and battery life status. The tag speeds up the process of temperature monitoring in cold storage rooms, mobile overseas containers, and truck trailers. The tag has the ability to send notifications and alerts according to user programmable business rules. CSL's Battery Powered Passive (BAP) technology holds up against products with high water content, low temperatures, and orientation issues. Moreover, the CS8301 tag is fully EPC Class 3 Gen 2 compliant and can be read by any Gen 2 compliant reader.

Applications

Cold Chain Management
Temperature Data Logging
Food Inspections
Cold Storage Rooms
Product Authentication

Mobile Overseas Containers
Recall Management
Cold Chain Transportation
Temperature Controlled
Pharmaceuticals

Living Organic Materials
Floral Management
Industrial Composites
and Chemicals Tracking

Dimensions	86 x 54 x 14 mm (3.34 x 2.12 x 0.55 in)
Memory	352bit EPC, 48bit UID, 3072bit User Memory
Operating Temperature	-24°C to 64°C (-11°F to 147°F)
Temperature Accuracy	+/- 0.5°C
Temperature Resolution	0.25°C
Mode of Operation	Battery-Assisted Passive (BAP) EPC Class 3 Gen 2
Operating Frequency	860 to 960 MHz
Battery Type	Lithium battery
Battery Life	Based on options and usage scenarios
Sampling Interval	User configurable between 1 second to 2.5 days
Alarm	Under Temperature, Over Temperature, Low Battery
Data Retention	> 10 years @ 55°C
IP Rating	IP 67
Country Version	CS8301-1, optimized for 866 to 868 MHz CS8301-2, optimized for 902 to 928 MHz

