Protecting What Matters Most



SAMS-3-NB-LTE-M

Fire and CO Alarm Audio Detector

- OTA Upgrade Support
- Used with UL fire/ CO alarms
- T3 Smoke/T4 CO Sound Pattern
- Easy Installation
- NB-IoT/LTE-M Connectivity

The SAMS-3-NB-LTE-M Fire and CO Alarm Audio Detector is designed to monitor your UL-listed fire alarms and CO alarms. It recognizes UL-compliant T3 fire alarm and T4 CO alarm sound patterns and sends instant alerts to server, including normal-frequency and low-frequency suitable for sleeping areas. Now equipped with OTA (Over-The-Air) capability, the device enables remote firmware updates for enhanced functionality and simplified long-term maintenance. It provides a cost-efficient solution to add existing fire alarm and CO alarm monitoring to your home without the need to replace the hardwired devices.

The audio detector captures alarm sounds emitted by fire/CO alarms and transmits a wireless alarm signal to the server upon detection, ensuring full coverage and reliable alarm reporting via the NB-IoT/LTE-M network. The wireless, compact design of the SAMS-3-NB-LTE-M allows for flexible placement and simple installation, whether on a wall or ceiling, ideally within 15 cm of a UL-listed fire/CO alarms. With its streamlined and unobtrusive appearance, the SAMS-3-NB-LTE-M integrates seamlessly into any home environment, helping users stay informed and protected against fire or CO hazards.



SAMS-3-NB-LTE-M

Fire and CO Alarm Audio Detector

Fire Alarm Audio Detection Workflow

T3 Fire Alarm Sound Pattern



T4 CO Alarm Sound Pattern



Features

- OTA (Over-The-Air) firmware update capability
- Monitors existing UL fire and CO alarms
- Recognizes T3 fire alarm and T4 CO alarm sound patterns including normal-frequency and 520Hz low-frequency suitable for sleeping areas
- Excellent stability with high sensitivity
- Mounted on wall or ceiling within a 15 cm range from a UL fire alarm or CO alarm
- Small, elegant design
- Wireless and lightweight for easy installation
- Easy ceiling mounting simplifies installation
- Red LED alarm indicator
- Low battery notification
- Regular supervision signals to check system integrity
- Suitable for residential and commercial safety applications

Specifications

SAMS-3-NB-LTE-M Fire and CO Alarm Audio Detector

Communication Protocol	MQTT
Radio Access Technology	LTE Cat M1 / Cat NB2 / Cat NB1
Frequency Bands*	Cat M1: LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85
	Cat NB2 / NB1: LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85
Power Source	3V CR123 lithium battery x 1
Battery Life	3.7 years**
Operating Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	Up to 85% non-condensing
Dimensions	75mm x 75mm x 23.8mm

**Note: Frequency band will vary with area and demand.*
***Note: Actual battery life may vary due to device settings, usage, and environmental conditions.*

Copyright © 2025 Climax Technology Co., Ltd. All Rights Reserved · Dec. 15, 2025

Federal Communication Commission Interference Statement

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 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

Industry Canada Statement

This device complies with Industry Canada licence-exempt RSS standard.
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement:

This equipment complies with RSS-102 radiation exposure limit set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Cet équipement est conforme aux CNR-102 d'Industrie Canada. Cet équipement doit êtreinstallé et utilisé avec une distance minimale de 20 centimètres entre le radiateur et votrecorps. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec autreantenne ou émetteur. Les antennes utilisées pour cet émetteur doivent être installés etfournir une distance de séparation d'au moins 20 centimètre de toute personne et doit pas être co-située ni fonctionner en conjonction avec une autre antenne ou émetteur.