

ZPR868-H

ZPR868-H ZITON PROTOCOL 868MHZ - RADIO LOOP MODULE (HUB) - 4 LOOP

General

The ZPR868-H is a Ziton protocol, radio hub for interfacing up to 4 loops of wireless 868 MHz fire alarm devices into a ZP fire alarm system. It enables these wireless devices to be controlled directly from the ZP panel, and provides a seamless interface between the panel and the wireless devices.

Performance and Range

With support for smart cluster technology, the ZPR868-H provides extended wireless coverage over zone type, wireless systems. Diversity antennae allows for extended communication range in all directions, whilst multipath communication techniques minimises the risk of interference from external sources.

System Design

With up to 4 hardware loops connected directly from the Ziton fire alarm CIE to the ZPR868-H hub, every devices on each of the CIE loops may be connected wirelessly. Cluster communicators (ZPR868-C or ZPR868-CM) communicate on one side wirelessly to the hub, and on the other side to up to 31 wireless devices, either detectors, notification and/or IO units and even other clusters. When redundancy is required, multipath communication enables clusters to talk to other clusters to find a reliable communication path back to the hub should its own dual communication frequencies be blocked. Clusters can also communicate with other clusters to extend the wireless communication distance for large installations.

Full flexibility

Wireless devices are featured in many fire detection and alarm systems, and are specified where the installation of hard wiring would be difficult or impossible to complete, decorative finishes to the interior of the protected building preclude wiring runs or where the time scales to complete installation are minimal.



Details

- Fully loop powered
- 4-Loop connectivity to up to 504 wireless devices
- 2-Way communication with up to 31 wireless clusters
- Diversity transceivers allow maximum operational range
- Variable power output
- Unique multi-path, smart cluster technology support
- Automatic selection from 32 radio channels for reliable communication
- 868MHz harmonised frequency support
- ETSI 300-220 approved
- EN54-18, 25 complaint and CPR certified

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Technical specifications

Electrical

Operating voltage	18 to 22 VDC
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General

Wireless frequency	868 MHz
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Physical

Physical dimensions	270 x 205 x 75 mm
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Net weight	950 g
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Colour	Grey (Pantone 428c)
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Environmental

Operating temperature	-10 to +50°C
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Storage temperature	-20 to +60°C
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Relative humidity	0 to 95% noncondensing
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Environment	Indoor
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IP rating	IP54
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Standards & regulation

Certification	EN54-17, EN54-18, EN54-25
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Compatibility

All ZP addressable systems

Indications

16 character LCD display

Application

Surface mount, indoors

Temperature range

Operating	-10°C to +50°C
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Storage	-20°C to +60°C
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Relative humidity (noncondensing)

0% to 95%

IP Rating

IP54

Operating voltage

18 to 22 VDC

Operating current

Typical	40 mA + 7 mA per loop
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Max.	47 mA + 10 mA per loop
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Operating frequency

868 MHz

Output transmitter power

Variable 0-14 dBm

Construction

Plastic box

Colour

Pantone 428c Cool grey

Dimensions without aerials (h x w x d)

270 x 205 x 75 mm

Weight

950 g

Approvals

EN54-18, 25

