

enteliMESH®

DFM-ZBEE: Wireless Interface

Description

The DFM-ZBEE is a wireless interface device capable of transmitting and receiving wireless communications from enteliMESH temperature and humidity sensors. The DFM-ZBEE is a compact module, that works in conjunction with a System or Application Controller providing remote data via Delta's LINKnet network.



Features

- ▶ Supports communication via Delta's LINKnet network
- ▶ Communication distances up to 30 m (100 ft) indoors
- ▶ Automatic selection of optimum channel for reliable signals
- ▶ Compact size, easy to mount
- ▶ Multiple antenna options

Application

The DFM-ZBEE communicates with up to 8 wireless devices total including eM-RPT repeaters. It receives data such as temperature, humidity and battery condition, and then makes it available via LINKnet. It also identifies signal strength received from a sensor or repeater.

The DFM-ZBEE's compact size allows for mounting in tight spaces and the RP-SMA connector allows for the choice of a default fixed or an optional remote antenna.

Specifications

LED Indicators

Scan
LINKnet Tx/Rx
Radio RSSI (Received Signal Strength Indicator)
Device Status
Associate

Device Addressing

Set via DIP switches

PAN ID

Set via DIP switches

Connectors

Removable screw-type terminal connectors

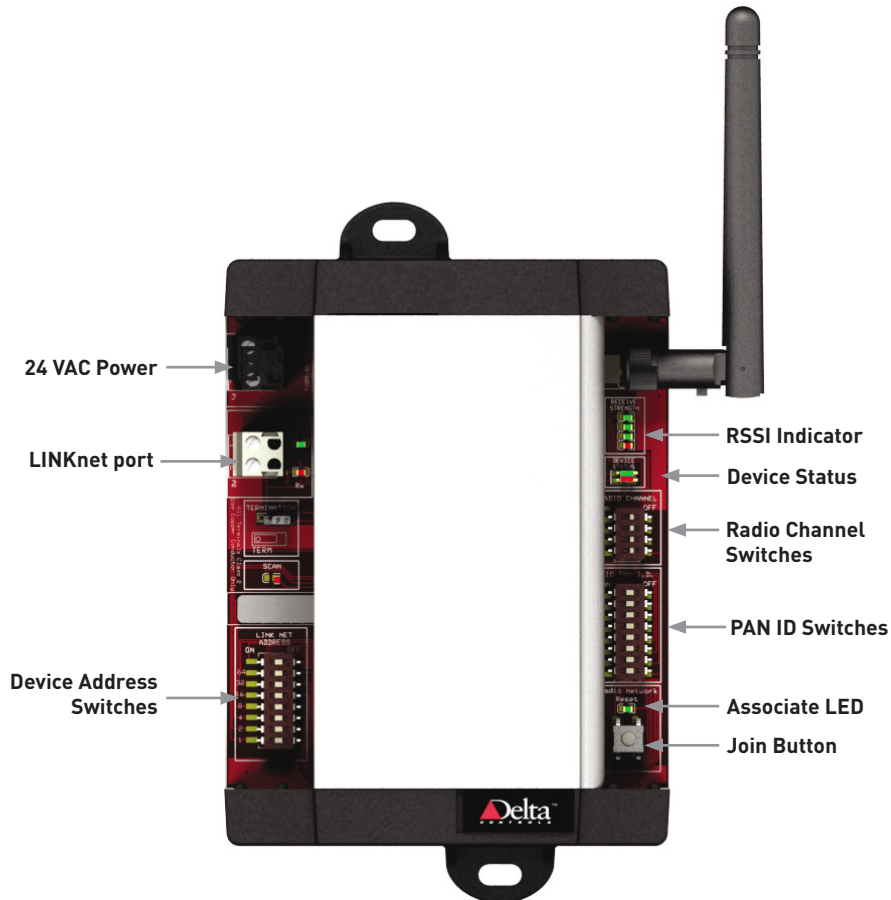
RP-SMA antenna

Wiring Class

Class 2

enteliMESH®

DFM-ZBEE: Board Diagram



Specifications (Continued)

Power

24 VAC 50/60 Hz @ 5 VA

Technology

32-bit processor

Communications Port

Delta LINKnet up to 76800 bps, max
8 devices on LINKnet with no more than
1 DFM-ZBEE

ISM 2.4 GHz frequency band, wireless
digital spread spectrum 802.15.4
compliant

Ambient

32° to 131°F (0° to 55°C)

10 to 90% RH (non-condensing)

Dimensions

6.3 x 4.0 x 1.9 in. (16 x 10 x 4.8 cm)
excludes antenna

Weight

0.38 lb. (171 g) with housing

Compliance

CE (ETSI)

IC

FCC, Class B, Part 15

Listings

UL 916 Listed

Ordering

Order the DFM-ZBEE according to the following product numbers:

DFM-ZBEE	Delta Controls Wireless Interface
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Accessories

eM-RPT	Delta Wireless Repeater, extends the range of enteliMESH devices
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Subject to change without notice.