

## Ethernet to ZigBee Converter



**ZUZ-110(Host)**  
**ZUZ-111(Slave)**

### Features

- ✓ Supports ISM 2.4 GHz operating frequency
- ✓ Fully compliant with ZigBee specification 2.4G IEEE 802.15.4
- ✓ Wireless transmission range up to 100 meters
- ✓ Provides GUI configuration software
- ✓ DIN Rail mountable



### Overview

The Zebra ZUZ-110 and ZUZ-111 is a pair of converter that works as host and slave. ZigBee is a specification based on the IEEE 802.15.4 standard for wireless personal area networks. It operates in the ISM radio bands and focuses on inexpensive, self-organizing, mesh network that can be used for industrial control, embedded sensing, medical data collection, smoke and intruder warning, building automation, home automation etc. ZUZ-110 and ZUZ-111 supports RS-232, RS-485 and Ethernet. With ZUZ converters, transmission frequency ranges between 2.405GHz and 2.480GHz and provides 16 channels for users.

### Hardware Specifications

#### Interface

**SRAM & Flash Memory:** 512K Bytes

**EEPROM:** 16K bytes (8 blocks, each block has 256 bytes)

#### COM port:

RS-232 (TXD, RXD and GND) : D-SUB9 Female, non-isolation

RS-485 (D+, D- ; self tuner ASIC inside), non-isolation

**Ethernet port:** 10/100Base-TX Auto-negotiating, Auto-MDIX, LED indicators

#### COM settings:

Data Bit : 7, 8

Parity : Even, Odd, None

Stop Bit : 1

#### Power

**Power Input:** VDC 10~30V

**Power Protection:** Power reverse polarity protection

**EMS Protection:** EDS, Surge, EFT

**Power Consumption:** 2.5 watts

**Dimensions:** IP-20 standard, 33 mm (W) x 107 mm (H) x 78 mm (D),  
Flammability UL 94V-0 standard

**Installation:** DIN-Rail, panel mount or desktop

#### Environmental

**Operating Temperature:** -25 to 75°C

**Storage Temperature:** -40 to 80°C (-40 to 180°F)

**Operating Humidity:** 5% to 90% RH (non-condensing)

**Regulatory Approvals:** FCC Class A, CE, TUV

**Environmental:** WEEE, RoHS

**MTBF:** 300,6000 hrs based on Mil-Hdbk-217F, GB

**Warranty:** 2 years

### Wireless Specifications

**RF Channels:** 16

**Receive Sensitivity:** -102 dBm

**Transmit Power:** 12 dBm

**Data Encryption:** AES-CTR

**Network Topology:** Star, Mesh, Cluster Tree

**Antenna:** 2.4 GHz – 3 dBi Omni-directional antenna