

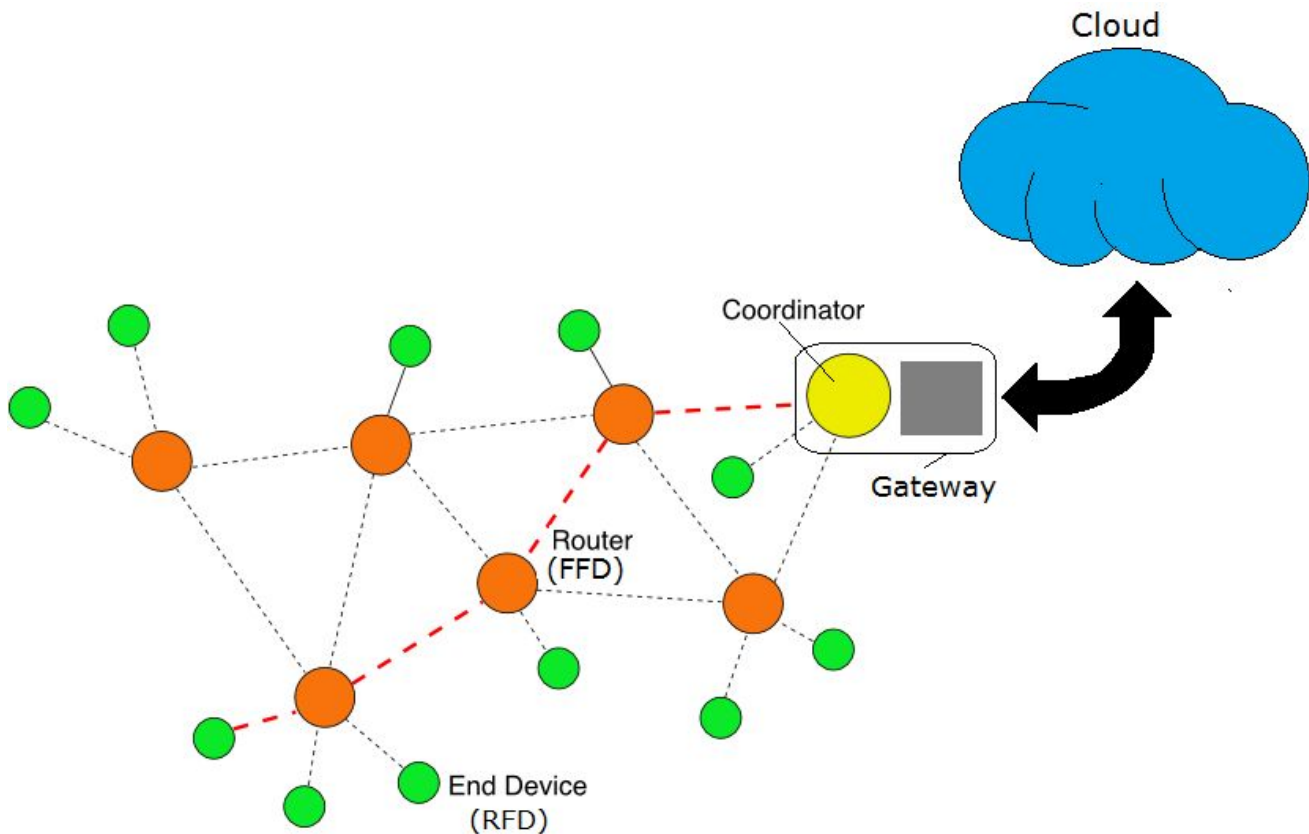
# WHTN155 WiSense Wireless Humidity and Temperature Sensor Module



## **DESCRIPTION**

- Low power wireless sensor node.
- Sensor node based on CC1120/MSP430
- Humidity Sensor:
  - Make: CC2D33S (Amphenol Advanced Sensors)
  - Range: 0 to 100 %
  - Accuracy: +/- 3%
  - No calibration required.
- Temperature Sensor:
  - Make: NXFT15XH103 NTC thermistor (Murata)
  - Range: -40 deg C to +125 deg C
- Wireless Operating frequency 865 to 867 MHz (License free in India)
- Radio max transmit power: +13 dBm
- Default Antenna (other antenna options available):
  - Half-wave dipole antenna
  - Gain: +3 dBi
  - Length: 185 mm
- Range: Around 1 KM LOS
- Powered by 2XAAA Batteries (Inside or outside enclosure).
- Reporting interval 1 second or more (configurable in real time via network coordinator).
- Enclosure
  - Material : ABS
  - Dimensions: 120 mm x 80 mm x 50 mm

- Each node has a unique IEEE assigned 64 bit address.
- Very low standby mode current consumption of 2 uA allows for long battery life
- WiSense network coordinator can support up to 64 simultaneous sensor nodes in a single network.



### WiSense Low Power Wireless Network Architecture

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