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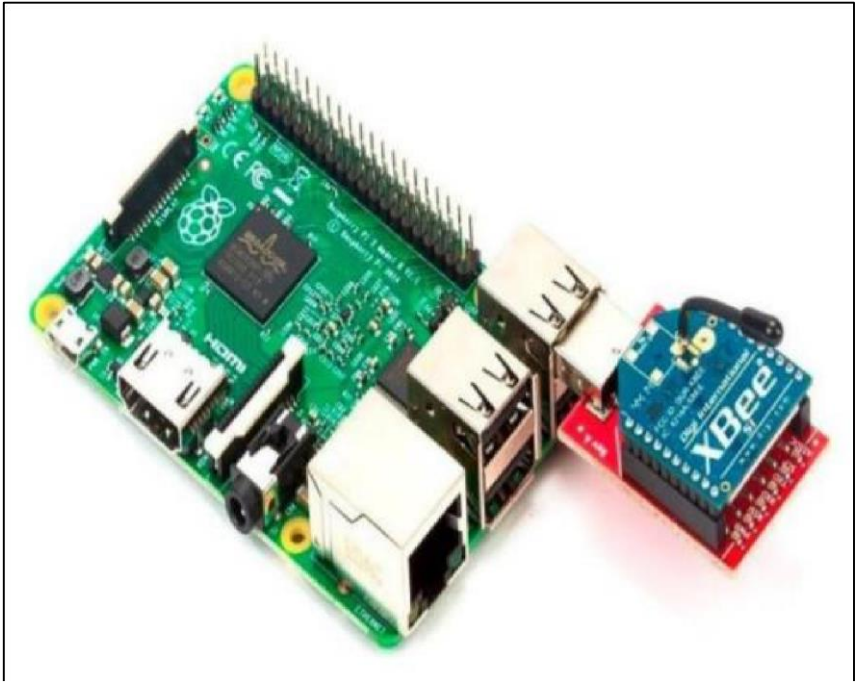
Aim:- Understanding and connectivity of Raspberry-Pi/ Beagle board with a zigbee module. Write a network application for communication betn two devices using zigbee.

Theory :-

Zigbee is a communication device used for data transfer betn Controller, computers, systems really anything with a Serial port. As it works with low power consumption, transmission distance is limited to 10-100 meters line-of-sight.

Zigbee devices can transmit data over long distances by passing data through a mesh network of intermediate devices to reach more distant ones.

It's main application use in field of wireless sensor communication got four USB ports so it zigbee dongle for this want to check betn two paired use to an interface in a proper Raspberry Pi 2 has is better to use interface.



Python script to perform zigbee communication

Import serial

Enable USB communication

ser = serial.Serial('/dev/ttyUSB0', 9600, TIMEOUT = .5)

while True :

ser.write("Hello user\r\n") # write a data

incoming = ser.readline().strip()

print 'Received data: ' + incoming

Conclusion :-

Thus, we have done zigbee communication between two Raspberry Pi devices.