This small, compact implementation of an Ethernet gateway, designed for low-power wireless networks, is based on IEEE 802.15.4 standards, so it’s compatible with ZigBee and JenNet-IP.

**KEY BENEFITS**
- JN5168 ZigBee / JenNet-IP wireless interface
- Provides a single application layer for ZigBee Light Link, ZigBee Home Automation, and JenNet-IP
- Custom software enables hybrid ZigBee Home Automation / ZigBee Light Link networks
- MIB-based JIP application layer
- OpenWRT Linux operating system
- Programmable for custom applications
- Supports standard internet security, including TLS
- Supports local web server
- NXP LPC3240 ARM9 host controller
- 1 GB Flash
- 512 kB SRAM
- 256 kB EEPROM
- 7-16 V DC power supply input
- Ethernet RJ45 port
- USB port supports WiFi dongle or additional network layer
- CE and FCC certified
- Customizable LED and button functions
- External antenna with RP-SMA connector

**APPLICATIONS**
- Internet control of ZigBee networks
- Internet control of JenNet-IP networks
- Ethernet connected gateway/coordinator
- Floor or room controller in commercial buildings

The NXP Internet of Things (IoT) Gateway is an essential component for connecting everyday wireless-enabled devices to the wired internet so they can be controlled and monitored. The powerful ARM9-based host controller runs an OpenWRT Linux operating system, providing an easy-to-use platform for system development. The software is modular, allowing for easy customization, including changes to the application software. The wireless interface can participate in ZigBee or JenNet-IP networks. With the addition of a wireless USB dongle, the gateway can participate in a mix of both networks. Data encryption uses standard internet techniques on the wired interface, and 128-bit AES encryption for wireless communications.
What's in the box?
IoT gateway unit *
Universal 12 V DC power supply unit **
Swivel SMA antenna
1-meter RJ45 Ethernet cable
Getting started guide

* RF information: IEEE802.15.4 Tx/Rx, frequency range 2400-2483.5 MHz, 2 dBm
 Operating temperature: 0˚ to 40 ˚C (32 to 104 ˚F)
 Operating humidity: 10 to 85% relative humidity (non-condensing)

** Mass Power SFF1200100U1BA or Stontronic T5148RW