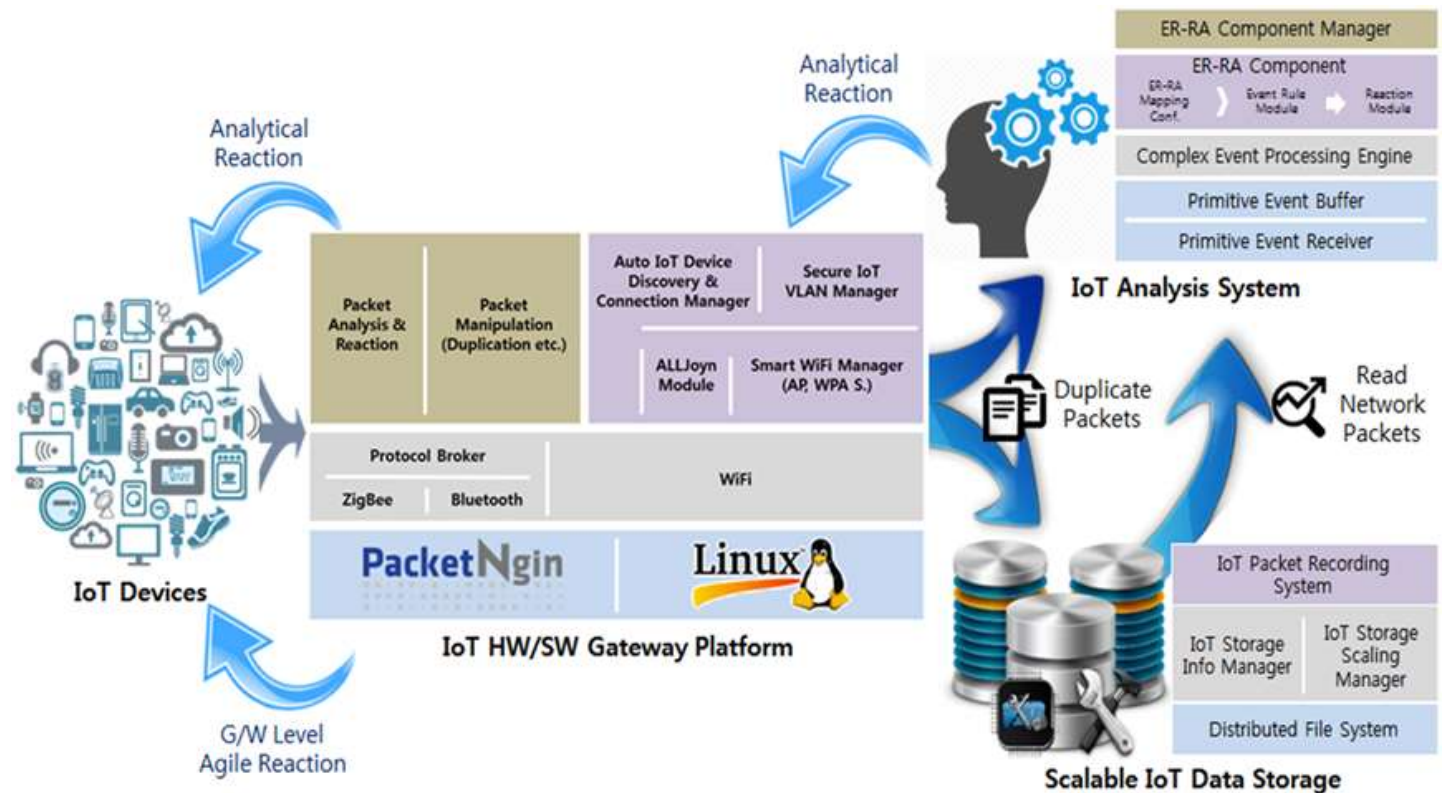


# Smart IoT Gateway for Industry

## Purpose

Research and development of a secure integrated smart gateway system that enables reliable and flexible IoT network packet processing and agile and proactive response to various situations, and enables network packet data analysis through mass storage.

## Smart IoT Gateway Architecture



## Characteristics

### Open IoT G/W Platform-Platform for IoT market

- Gateway Platform based on Linux and PacketNgin RTOS
- In the case of PacketNgin RTOS, both open source and commercial licenses are provided to provide both openness and technical support.

### Real-Time Reaction (Essential function of industrial IoT)

- Packet monitoring based on DPI (Deep Packet Inspection)
- When transmitting a packet of a specific pattern, a real-time reaction (less than 3ms) notifies the possibility of an accident in advance (e.g. sensor malfunction, packet inflow of abnormal pattern, etc.)

### Packet logging (essential security application for industrial IoT)

- Lower management costs by providing horizontally auto-expandable storage

- By storing packets for a certain period (about 1 month), it provides basic data for analyzing the cause after an accident

**Complex event processing (advanced function of industrial IoT)**

- It is slower than real-time reaction, but it detects a more complex pattern and performs a slow reaction (less than 3s) to notify the possibility of an accident in advance.