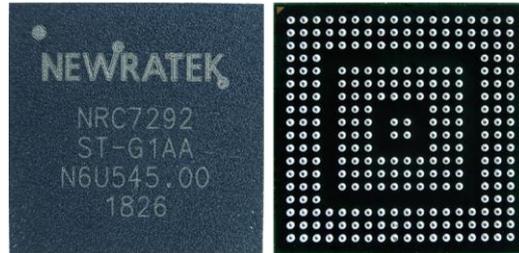


## Reference

### 1. NEWTRACOM Product

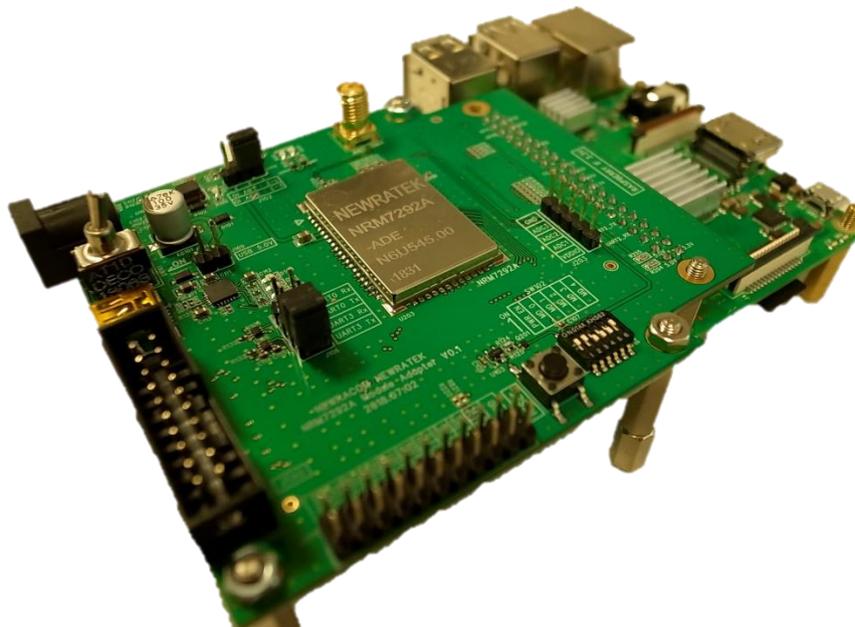
#### A. NRC7292 - HaLow Chipset (SoC)



- Key Features

- Complies with IEEE 802.11ah draft 8.0
- Fully Integrated on-chip 11ah modem, RF transceiver, processor, and memory
- Support 1/2/4 MHz bandwidth
- Up to 15 Mbps data rate
- Travelling pilot for Doppler spread
- Low power mode operation: Legacy, WMM-PS, TWT
- AES-CCMP security
- Dedicated SPI and UART interface for host
- Various peripheral interfaces for sensor device
- Manufacturing tools for configuration and test
- Diagnostic and DUT test tools for indoor and outdoor test

#### B. NRM7292 EVK (HaLow Evaluation Board including Module)



- Key Features
  - IEEE 802.11ah Wi-Fi SoC solution
  - Micro-USB type B connector for serial interface
  - 20-Pin header connector for JTAG interface
  - 40-Pin header connector for Raspberry PI 3 Model B interface
  - DIP switch for Wi-Fi module configuration
  - SMA female connector for ANT

**2. AdvanWAVE Product**

**A. HG-3000 - HaLow IoT Gateway**



**HG-3000 Indoor HaLow Gateway**



**HG-3000W Outdoor Gateway**

- Key Features
  - 802.11ah AP/ Station pair supports long range sub 1GHz Transmission
  - Support 600 meters (LOS) of wireless connection with 1Mbps throughput
  - Hybrid-WAN support: 1Gb ETH, 2.4GHz/ 5GHz/802.11ah Wi-Fi and optional LTE
  - Optional LoRa high network capacity: 1Gateway<->500 LoRa nodes
  - Configurable via web browser/ Cloud-based management
  - Node.js/ javascript programs plug-in by customers for application customization
  - Integration support with a variety of partners and private Cloud Platforms.