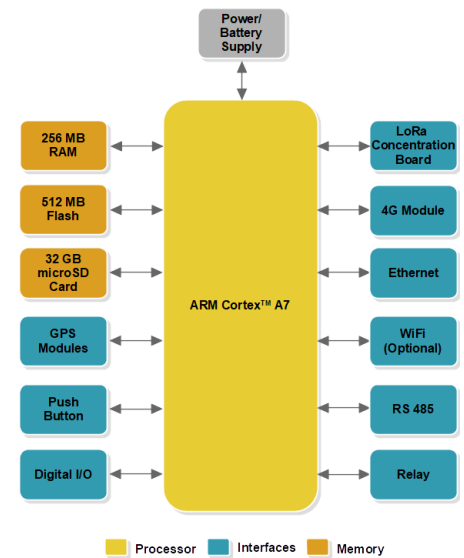


NebuLink Gateway

NLG7644



Introduction

LoRa® is a well known for long range communication and SLS has now increase their portfolio by adding the LoRaWAN gateway. This gateway is pre-programmed with full featured LoRaWAN™ network base station. This gateway helps the LoRa devices to connect over 4G to cloud. It has a range of over 15 KM line-of-sight and over 2 KM in dense urban environments.

NLG7644 is powered by ARM Cortex A7 processor with 1.2 GHz clock with large storage and interfaces for industrial applications. It brings more flexibility for the developer to create an enterprise grade solution with the help of our flexible development support structure which allows faster development and time to market.

Applications

- Industry, Defence, Military Applications
- Smart Metering
- Street Lighting
- Smart Buildings & Home Automation
- Logistics and Supply Chain Management
- Smart Cities
- Smart Factory
- Data Centers/Server Rooms

Features

- Supports offline uplink LoRa packets storage up to 5000 packets
- Open source embedded Linux system
- Built-In GPS for location and timing
- Supports Gateway bridge with TLS encryption
- IP68, UL94 5VA flame and NMEA 4x rated case
- Long range wireless data transmission
- External fibre glass antenna with 5 dBi gain
- Supports upto 1 Gbps Ethernet speed
- Support of configurable State Packet
- LoRa Frame filtering (node whitelisting)

Specification

Hardware Specification	
Processor	ARM Cortex™ A7 1.2 GHz
Storage	256 MB Internal RAM, 512 MB Internal Flash, Up to 32 GB microSD Card
I/O Interface	
Digital Input/Counter	Isolated 2 Channels, 16 bits, Input Frequency 50 Hz (max), Pulse Width 10 ms (min)
Digital Relay Output	Isolated 1 Channels
Digital Output	Isolated 2 Channels
Communication Interface	
Serial	1 x RS 485
Ethernet	1 x IEEE 802.3 10/100M/1G bps
Cellular	FDD-LTE: B1/B2/B3/B5/B7/B8/B20 TDD-LTE: B38/B40 HSPA/UMTS: 900/850/1800/1900/2100 MHz GSM/GPRS/EDGE: 850/900/1800/1900 MHz
LoRa	SX1301 based, 8 Channels Support Operating Frequency: EU868, IN865 Tx Power: +5 to +27 dBm (Configurable) Rx Sensitivity: -137dBm
Software Specification	
Stack	QuecOpen™ Linux OS
LoRa	Supports class A and C Supports LoRaWAN 1.0.1 and 1.0.2 Supports location setup Supports server address & port setup
Management	Supports secure firmware update Supports NTP
Electrical Specification	
Power Supply	+12 to +24 VDC @ 2A
Supported Battery Supply	3.7/4.2 V, 2000mAh (optional external)
Operating Temperature	-40 to +85 °C
Humidity	Relative humidity 15% to 93% non condensing
Safety	EMS Protection, ESD (IEC 61000-4-2) 4 kV Contact for each terminal, EFT (IEC 61000-4-4) ±2 kV for Power
General	
LEDs	3 x Status LEDs
Dimension	208.17 x 190 x 60.20 mm
Antenna	1 x Cellular, 1 x GPS, 1 x LoRa (Fiber Glass with 5 dBi gain)

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