

## GTW410-L SPEC



### Overview

Geniatech's GTW410-L features Qualcomm Snapdragon 410 processor, a Quadcore ARM® Cortex™ A53 at up to 1.2GHz clock speed per core, capable of 32-bit and 64-bit operation. It supports Linux for LoRa Gateway and offers advanced processing power, WLAN, Bluetooth, GPS, and popular RF modules. Through this Industrial LoRa Gateway, anything will be easy to be indexed, searched and traded as any other online product. And the LoRa Gateway is widely used in Smart metering, Smart lighting control, Smart building system, Security and remote sensing, Agricultural monitoring, M2M applications, etc.

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## Specifications

### Processor

Snapdragon 410 quad core ARM® Cortex® A53 (64bit, 1.2GHz)

Qualcomm® Adreno™ 306 GPU

### Memory/Storage

1GB or 2GB LPDDR3 533MHz

8GB or 16 GB eMMC 5.0

SD 3.0 (UHS-I)

### Display

HDMI 1.3 - HDMI full-size type A connector (1080p HD @ 30 fps)

1x MIPI-DSI 4-lane, up to 720p 60fps or 1080p 30fps for opXonal display/touch

### LoRaWAN Specification

#### General Radio

- Semtech Radios SX1301 and SX1257 (x2)

#### RF Characteristics

- Frequency Range 863 to 870 MHz or 902 to 928MHz
- RX sensitivity Up to -140 dBm
- Max RF Output Power Up to +27 dBm

#### Power Consumption

- TX (max) - 440 mA
- RX (all channels) - 340 mA

#### Software

- Based on Semtech Rev 1.0 -SX1301 AP1

#### Regulatory

- CE / FCC / IC CerXfied

### Connectivity

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WLAN 802.11 b/g/n 2.4GHz

Bluetooth 4.1

1x 10/100M Ethernet

2x USB 2.0 type A (host mode only)

GPS with External antenna

External BT and WLAN antenna

2 dry contact output controllable by appcaXon<sup>i</sup>

#### **Expansion connector(Internal)**

1x 40 pin Low Speed (LS) expansion connector

- UART, SPI, I2S, I2C x2, GPIO x12, DC power

1x 60 pin High Speed (HS) expansion connector

- 4L-MIPI DSI, USB, I2C x2, 2L+4LMIPI CSI

Footprint for one optional 16-pin Analog expansion connector

- Headset, Speaker, FM antenna

#### **External Storage**

1x Micro SD socket

#### **User Interface**

2 LED indicators

- 1 for Power On/Off and Ethernet activity
- 1 for WLAN activity

#### **OS-support**

Linux based on Debian

#### **Power, Mechanical and Environmental**

Power: +6.5V to +18V

Operating Temp: -10°C to +85°C

RoHS and Reach compliant

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**ShenZhen Geniatech Inc., Ltd.**

TEL:+86-755-86028792  
FAX:+86-755-26710210

***Seeing is believing***

18<sup>th</sup> F, G.D.C Building, No.9 Gaoxin Middle 3<sup>rd</sup> Rd , Nanshan District, Shenzhen City, China

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