

## GTW410 SPEC



### Overview

Geniatech's GTW410 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 Android, Linux and Windows 10 IoT core and offers advanced processing power, WLAN, Bluetooth, GPS, and popular RF modules, all packed into a board the size of a credit card. Through this Industrial IoT gateway, anything will be easy to be indexed, searched and traded as any other online product. And the IoT Gateway is widely used in smart community, equipment monitoring, remote control, energy management, 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)

Up to 720p 60fps or 1080p 30fps for optional display/touch

### Camera(Internal)

2x MIPI-CSI: 1x 4-lane, 1x 2-lane, up to 13MP

### Audio(Internal)

PCM/AAC+/MP3/WMA, ECNS, Audio+ post-processing (optional)

All signals are routed to the analog expansion connector

### LoRaWAN

#### 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

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- Based on Semtech Rev 1.0 -SX1301 AP1 Regulatory
- CE / FCC / IC Certified

**ZigBee 3.0**

- 2.4GHZ IEEE 802.15.4
- 250 kbps O-QPSK DSSS
- Sensitivity:-102.7 dBm @250 kbps O-QPSK DSSS
- Programmable Output Power:+19 dBm
- Antenna Diversity

**BT 5.0**

- Compatible with Bluetooth 5 Specification
- Receive Sensitivity: -103.3 dBm @125 kbps GFSK(select devices)
- Programmable Output Power:+17 dBm
- Active Mode RX: 9.5 mA
- Active Mode TX: 10.0 mA @ 0 dBm

**Z-Wave**

- Receiver sensitivity with SAW filter down to -103dBm @ 9.6kbps
- Transmit power with SAW filter up to +4dBm
- Z-Wave 9.6/40/100kbps data rates
- Supports all Z-Wave sub-1 GHz frequency bands (865.2 MHz to 926.3 MHz)
- TX mode current typ. 36mA@0dBm
- RX mode current typ. 32mA
- Supply voltage range from 2.3V to 3.6V for optional battery operation

**RS485 and RS232****Connectivity**

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MiniPCI-E LTE/3G module (Optional)

WLAN 802.11 b/g/n 2.4GHz

Bluetooth 4.1

1x 10/100M Ethernet

1x USB 2.0 micro B (device mode only)

2x USB 2.0 type A (host mode only)

GPS On-board GPS antenna

External BT and WLAN antenna

#### **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**

8 LED indicators

- 4 - user controllable
- 4 - for Power, BT, WLAN and Ethernet activity

#### **OS-support**

Android 5.1

Linux based on Debian

Windows 10 IoT core

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

Power: +6.5V to +18V

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***Seeing is believing***

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Dimensions: 160\*144.5\*38mm

Operating Temp: -10°C to +85°C

RoHS and Reach compliant

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