



IoT Bit 4G Industrial

Specifications

| | |
|--------------------------|--|
| Modem | SIM7600X-H |
| Processor | Arm Cortex M0 |
| Dimensions | 65 x 65 x 11mm |
| Power | Operates at 3.3V, Micro USB socket 5V, 3.6 – 4.2V LiPo battery |
| Power Consumption | Idle ~25mA Modem on ~100mA Sending SMS ~200mA Making Call ~250mA Transmitting Data ~400mA |
| Regions | America, Asia, Europe |

Connectors:

| | |
|-------------------------|---|
| Micro USB | Micro USB 2 x USB 2.0 Connector |
| Sim Card | Micro Sim |
| GPIO Connector | 40-pin 2.54 mm (100 mil) expansion header: 2x20 strip |
| Battery Terminal | 2-pin 3.5mm battery terminal |
| GPS | U.FL Connector |
| Antenna | SMA Female |

HAT Features

- LTE Cat 4 (150MBs downlink 50MBs uplink)
- GPS/GLONASS/Beidou compatible
- Supports 3.7-4.2V Lipo battery
- Fuel Gauge for advanced battery monitoring. Linux Driver available for battery management.
- 3G and 2G Fallback
- Widows and Linux Drivers for modem

Key Applications

- Mobile data hotspot
- Media Streaming
- Industrial/Home automation
- Print server
- GPS Tracking
- Wireless access point
- Environmental sensing/monitoring (e.g. weather station)
- IoT applications
- Robotics
- Server/cloud server
- Security monitoring
- Gaming



IoT Bit 4G Industrial

Product Name **IoT Bit Industrial**

Product Description The IoTBit 4G Industrial Version has been designed with the factory of tomorrow in mind providing a super fast cat 4 4G modem for faster connectivity, a GPS for highly accurate positioning information and advanced battery management hardware and software to enable you to keep track of battery health and state of charge. This is the perfect module for developers creating factory automation solutions and every component is industrially rated.

Frequency Bands

| Module / Region | LTE-TDD | LTE-FDD | UTMS/HSPA | GSM/GPRS/EDGE | Network lock |
|--|-------------|--------------------------|-------------|----------------------|--------------|
| SIM7600E-H Europe, The Middle East, Africa, Korea and Thailand | B38/B40/B41 | B1/B3/B5/B7/B8/B20 | B1/B5/B8 | B3/B8 | No |
| SIM7600A-H North America | | B2/B4/B12 | B2/B5 | | No |
| SIM7600SA-H Australia, New Zealand, South America | B40/B66 | B1/B2/B3/B4/B5/B7/B8/B28 | B1/B2/B5/B8 | 850/900/1800/1900MHz | No |

GNSS Technology: GPS/GLONASS/Beidou



GPIO Layout

| Pin Number | Name | Description |
|------------|----------------|---|
| 1 | 3.3V | Sourced From the Raspberry Pi |
| 2 | 5V | Sourced from the IoTBit |
| 3 | SDA | I2C Data bus |
| 4 | 5V | Sourced from the IoTBit |
| 5 | SCL | i2C Clock |
| 6 | GND | Ground |
| 7 | NC | Not Used |
| 8 | TX | UART Transmission Line connected to modem |
| 9 | GND | Ground |
| 10 | RX | UART Receive Line connected to modem |
| 11 | NC | Not Used |
| 12 | RI | Ring Indicator- Line pulled high when message received |
| 13 | NC | Not Used |
| 14 | GND | Ground |
| 15 | NC | Not Used |
| 16 | DTR | Data Terminal Ready - Used to enable sleep mode on modem |
| 17 | 3.3V | Sourced From the Raspberry Pi |
| 18 | OE | pull high to enable level shifter- required to communicate with the modem |
| 19 | NC | Not Used |
| 20 | GND | Ground |
| 21 | NC | Not Used |
| 22 | NC | Not Used |
| 23 | NC | Not Used |
| 24 | NC | Not Used |
| 25 | GND | Ground |
| 26 | NC | Not Used |
| 27 | NC | Not Used |
| 28 | NC | Not Used |
| 29 | GPOUT | Used to reset the fuel gauge IC |
| 30 | GND | Ground |
| 31 | Charger Enable | Used to turn off the battery charger |
| 32 | NC | Not Used |
| 33 | Modem Power | Used to turn on the modem |
| 34 | GND | Ground |
| 35 | NC | Not Used |
| 36 | NC | Not Used |
| 37 | NC | Not Used |
| 38 | NC | Not Used |
| 39 | GND | Ground |
| 40 | NC | Not Used |



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