

# Global LTE IoT Starter Kit



Powered by  **AT&T**

 **DESIGNED BY AVNET**

#### Kit Includes:

- LTE Development Board
- LTE+GNSS Antenna
- SIM Card
- USB Cable
- Universal Power Supply
- IoT Development Tools\*
  - M2X
  - Flow Designer
- Quick Start Card

#### Target Apps:

- Cellular IoT Devices
- Remote Access
- Smart City
- Smart Agriculture
- Asset Tracking
- Building Automation
- Factory Automation

\*IoT Development Tools Designed and Developed by AT&T

Avnet's Global LTE IoT Starter Kit enables the design of cellular connected IoT edge devices that can operate in over 25+ countries around the world. Powered by AT&T IoT services available through Avnet, the kit provides a complete development environment for sensor-to-cloud applications and services. To speed transition from prototyping to production, the small form-factor, fully certified development board included in the kit can also be purchased in volume quantities, accelerating IoT deployment efforts and reducing risk. The Starter Kit features a small (79.5 mm x 30 mm) development board built around Wistron NeWeb Corporation (WNC) M18QWG global LTE Cat-4 modem module. The M18QWG module provides cellular modem functionality plus user application code support, thus eliminating the need for an external host processor. A rich set of embedded system peripherals, controllable through the user's application code, are easily accessible through a 60-pin expansion connector or a 2x6 peripheral module header. This enables easy system customization with application specific sensors and I/O interfaces through the addition of user created or off-the-shelf plug-in boards. The development board also includes an ambient light sensor, temperature sensor, and 3-axis accelerometer for out-of-box demonstration examples.

User application code runs directly on the M18QWG module, leveraging the OpenEmbedded software framework for Linux application development. A Software Development Kit (SDK) specific to the M18QWG module provides the necessary API calls to access hardware peripherals and system resources. Application code built with the SDK is loaded into the M18QWG module through a USB interface on the development board, eliminating the need for external proprietary JTAG cables. Cloud application development is supported by AT&T's M2X Data Services and Flow Designer. M2X is a cloud-based, fully managed data storage service for connected machine-to-machine (M2M) devices, while Flow Designer is a visual IoT application development environment designed to help IoT developers create applications faster.

#### Feature List:

##### LTE Development Board

- Global SoC Module
- Ambient Light Sensor
- Temperature Sensor
- 3-Axis Accelerometer
- USB Interface
- 60-pin High-density Expansion Connector
- 3.3V level 2x6 Peripheral Module Connector
- Power Regulation

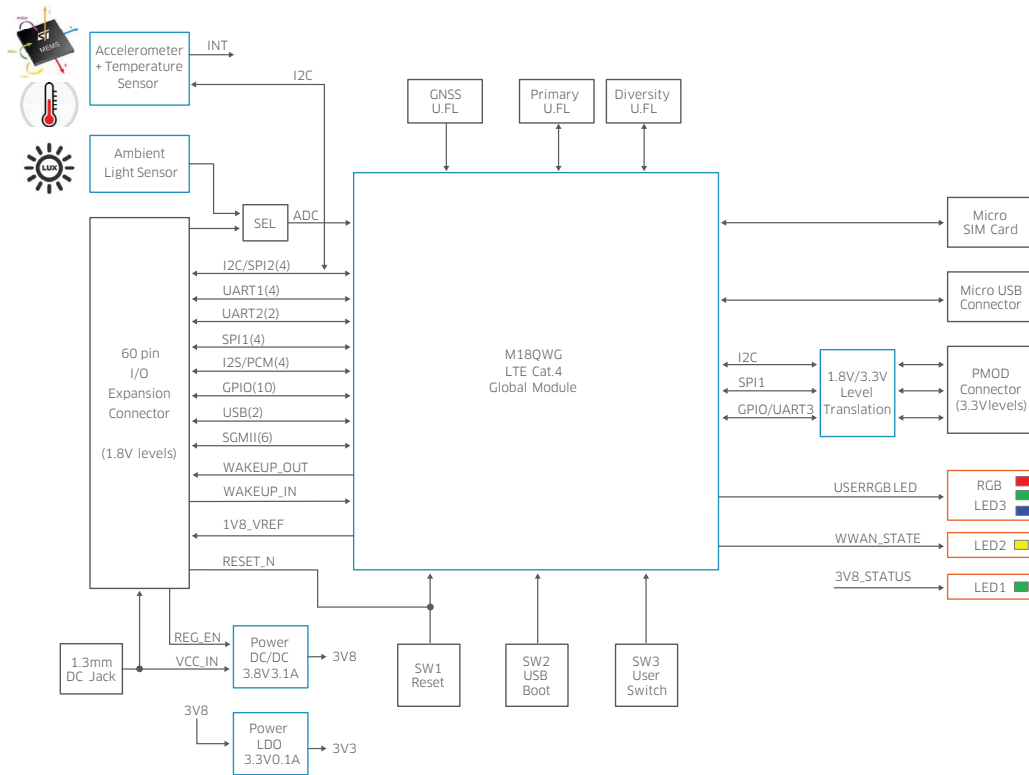
##### WNC M18QWG Global Module

- Global Band Support
- Cat-4 LTE
- 2G/3G Fallback
- GPS
- Based on Qualcomm 9207-1
  - ARM® Cortex™ A7 Quad Core
  - Single A7 Core Dedicated to User Application
- Rich Peripheral Features

##### Pulse Electronics LTE+GNSS Antenna

- 2G/3G/4G MIMO
- GNSS (GPS, Glonass)
- Single Device
- Foldable

## Block Diagram



## Featured Manufacturers



ON Semiconductor®



## Parts:

Part Number	Description	Resale
AES-ATT-M18QWG-SK-G	Global LTE IoT Starter Kit	\$139

## Related Parts:

Part Number	Description	Resale
AES-ATT-M18QWG-M1-G	Global LTE M18QWG Production Board (M1)	Contact Avnet
W6113B0100	LTE+GNSS MIMO Antenna	Contact Avnet
ASP-197278-01	Samtec ERM8 Series Matching Connector (7mm mated connector height)	\$1.35
ASP-197278-02	Samtec ERM8 Series Matching Connector (10mm mated connector height)	\$1.35
ASP-197278-04	Samtec ERM8 Series Matching Connector (14mm mated connector height)	\$1.90

Countries Available for Purchase: Americas, EMEA, Asia

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