



- [HL7800](#)



Air Interface: Cat-M1,Cat-NB1

Region: Global

Carrier: AT&T,Verizon,Sprint,SouthernLINC,Rogers,Telus,NTT

Docomo,KDDI,Vodafone,Deutsche Telekom,Telstra,Spark,Sierra Wireless

HL7800 LPWA Module

Multi-mode LPWA module offers best-in-class power performance for global LTE-M, NB-IoT, and GNSS networks

The HL7800 module for Cat-M1/NB1 worldwide networks is fully compliant with the 3GPP Release 13. It provides a low-cost, best-in-class power technology for low-bandwidth IoT applications with extended reach beyond traditional cellular.

This module is ideal for simple static sensor applications, or real-time fixed or mobile applications such as asset tracking, industrial equipment monitoring, consumer wearable devices, smart city deployments, healthcare applications and agricultural monitoring devices

Benefits



Ready-to-Connect

Get instant access to Sierra Wireless Smart Connectivity to reduce total cost of ownership, strengthen end-to-end security, and simplify operations with a single point of accountability and management platform



Common Form Factor

Compact CF3® design to migrate between technologies and future-proof product platforms



Global

Worldwide coverage on a single module with industry and mobile network certifications to get you to market faster



FOTA Upgrades

FREE firmware over-the-air (FOTA) upgrades future-proof deployments and keep them secure



Cloud Connected

Securely collect data and remotely manage your IoT deployments with integrated AirVantage® cloud services



Ultra-Low Power Mode

Best-in-class power performance extending the life of battery operated devices by 5-10X



Location Services

Integrated GNSS receiver enables tracking and location-based services



TCP/IP Stack

Embedded stack to easily communicate over the internet

<AT>

Programmability

Basic and Extended AT Commands simplify development



Industrial-Grade

Tested for harsh environments and extreme temperatures

Technical Specifications

4G LTE

Category

Cat-M1/NB1

Frequency Bands

B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B17, B18, B19, B20, B25, B26, B27, B28, B66

DATA SPEED

Peak Download Rate

Cat-M 300Kbps, Cat-NB1 27Kbps

Peak Upload Rate

Cat-M 375Kbps, Cat-NB1 65Kbps

LOCATION SERVICES

Satellite Systems

GPS+Glonass

EMBEDDED SOFTWARE

Firmware

Secure boot, Pre-certified firmware

System Drivers

Linux Driver: Standard ECM

INTERFACES

UART

1 X 8-wire

USB

1

ADC

2

GPIO

8

Tx ON Indicator

1

SIM interface 1.8V/3V

1

HARDWARE

CF3 Form Factor

LGA

Dimensions

15x18x2.4mm

Temperature Range

Industrial Grade: -40°C / +85°C

APPROVALS

Carrier

AT&T, NTT Docomo, Deutsche Telekom, KDDI, Rogers, Spark, SouthernLINC, Sprint, Telstra, Telus, Verizon, Vodafone, Sierra Wireless

Regulatory

FCC, GCF, IC, JRF, JPA, KC, PTCRB, RCM, RED

EMBEDDED SIM

Optional Ready-to-Connect (Sierra Wireless USIM)

CLOUD SERVICES

Free FOTA upgrades, Connectivity Management option, Device Management option

Development Kit



mangOH® Yellow open source reference design is the official development kit for this module, providing a sensor-to-cloud platform with built-in antennas to rapidly prototype ideas and get them to production. Build low-power IoT applications that can run on a battery with mangOH Yellow, which also offers built-in accelerometer, gyroscope,

magnetometer, pressure, humidity, acoustic mic, air index quality, temperature, and light sensors, in a compact form factor.

Dev Kit Details

