- HL7802

Air Interface: Cat-M1,Cat-NB1 with 2G fallback
Region: Global
Carrier: Vodafone,AT&T,Verizon,Orange,Sierra Wireless

HL7802 LPWA Module

Multi-mode LPWA module offers best-in-class power performance for global LTE-M, NB-IoT, 2G, and GNSS networks
The HL7802 module for Cat-M1/NB1 worldwide networks with 2G fallback is fully compliant with the 3GPP Release 13 standard. 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.

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	
	2G
	GPRS
850, 900, 1800, 1900	
	GSM
850, 900, 1800, 1900	
	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

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, Orange, Verizon, Vodafone, Sierra Wireless

Regulatory

FCC, GCF, IC, 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.