

• <u>HL7812</u>





Air Interface: Cat-M1,Cat-NB2 with 2G fallback Region: Global

HL7812 LTE-M and NB-IoT Module for Industrial IoT

Global LPWA module with 2G fallback offering ultra low power, small footprint and deep coverage

For battery-powered or low power deployments, Sierra Wireless' HL7812 module supports 3GPP's Release 14 features and offers best-in-class power consumption, high transmit power and the highest level of security from the edge to the cloud. This ensures field longevity and reduces the risk of your mission critical applications such as asset tracking, smart energy, smart cities and more.



Private Networks

Band 8 with NAD to enable utilities in the US to deploy their own 900MHz private network



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Deep Building Penetration

Improve indoor and underground coverage with class 3 (23 dBm) transmission power



Best-in-class power efficiency

Reduce operational and device maintenance cost of battery-powered and low power devices



End-to-End Security

Security keys encrypted are stored in a secure element for an added layer of protection for your solution, from the edge to the cloud

Common Form Factor

Compact <u>CF3® design</u> to migrate between technologies, expand globally, and futureproof product platforms



Ready-to-Connect

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



FOTA Upgrades

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



Location Services

Integrated GNSS receiver with Assisted GNSS enables tracking and location-based services

TCP/IP

TCP/IP Stack

Embedded stack to easily communicate over the internet supporting a rich set of protocols including HTTP/S, TCP, UDP, TLS, DTLS

Technical Specifications

4G LTE

Category

Cat-M1/NB2

Frequency Bands

B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B17, B18, B19, B20, B25, B26, B27, B28, B66, B85

	2G
	GSM, GPRS
850, 900, 1800, 1900	
	DATA SPEED
	Peak Download Rate
Cat-M1 590Kbps, Cat-NB2 127Kbps	
Cat-M1 1100Kbps, Cat-NB2 158Kbps	Peak Upload Rate
	LOCATION SERVICES
	Satellite Systems
GPS+Glonass	
	EMBEDDED SOFTWARE
Secure boot, Pre-certified firmware	Firmware
	INTERFACES
	UART
1 X 8-wire	OART
1	USB
	ADC
2	GPIO

8	
1	Tx ON Indicator
I	SIM interface 1.8V/3V
1	
	HARDWARE
	CF3 Form Factor
LGA	

15x18x2.4mm

Industrial Grade: -40°C / +85°C

EMBEDDED SIM

Temperature Range

Dimensions

Optional Ready-to-Connect (Sierra Wireless USIM)

Free FOTA upgrades, Connectivity Management option, Device Management option

OCTAVE ENABLED

CLOUD SERVICES

Variant available with Octave all-in-one edge-to-cloud solution





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