HL7810 Global LPWA Module for Industrial IoT

LTE-M and NB-IoT module offering ultra low power, small footprint and deep coverage
For battery-powered or low power deployments, Sierra Wireless' HL7810 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.

Benefits

Private Networks

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

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 CF3® design to migrate between technologies, expand globally, and future-proof product platforms

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

FOTA Upgrades

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

Location Services

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

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	
	DATA SPEED
	Peak Download Rate
Cat-M1 590Kbps, Cat-NB2 127Kbps	
	Peak Upload Rate
Cat-M1 1100Kbps, Cat-NB2 158Kbps	
	LOCATION SERVICES
	Satellite Systems
GPS+Glonass	
	EMBEDDED SOFTWARE
	Firmware
Secure boot, Pre-certified firmware	
	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	
	EMBEDDED SIM
Optional Ready-to-Connect (Sierra Wireless USIM)	
	CLOUD SERVICES
Free FOTA upgrades, Connectivity Management option, Device Management option	