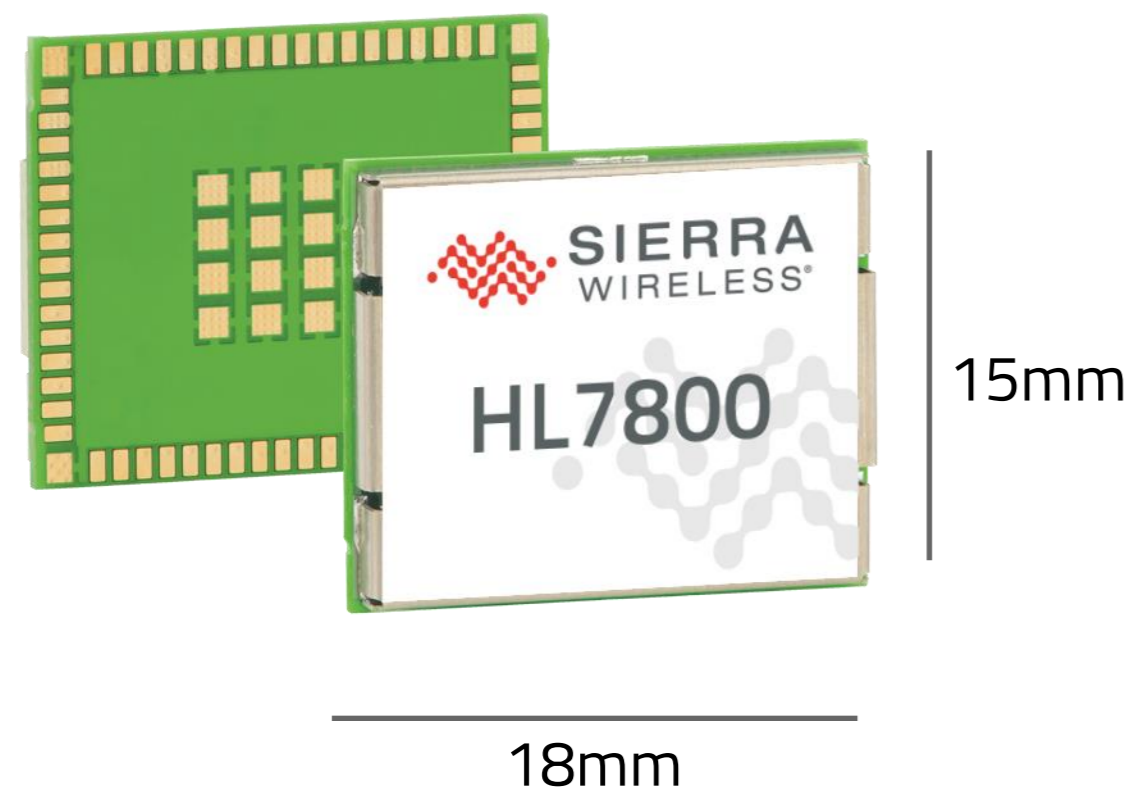


**LPWA PRODUCT SPOTLIGHT: HL7800**

# Ultra low power LTE-M/NB-IoT

BEST-IN-CLASS POWER CONSUMPTION

BEST-IN-CLASS SIZE



Low Power



Global Coverage



Scalable



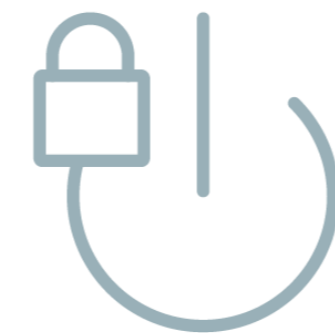
Ready-to-Connect



Free FOTA



Cloud Connected



Built-in-Security



Integrated GNSS



Internet Ready



Extensive AT Commands



Industrial-Grade

# HL7800 Specifications

## Cellular

- LTE Multi Mode LTE Cat-M1 and NB1 @23 DBM
  - Cat-M1 & NB1 bands support: 1-5, 8-10,12-13,17-20, 25-28, 66
  - LTE: Cat-M1 (DL 300kbps/UL 375kbps peak)
  - LTE: Cat-NB1 (DL 27kbps/UL 65kbps) (Future support for NB2)
- Single RX/TX antenna port

## Hardware Specs

**Dimensions:** 15 x 18 x 2.4 mm [LGA]

**Chipset:** Altair 1250

### Host Interfaces

- 8-wire UART
- USB

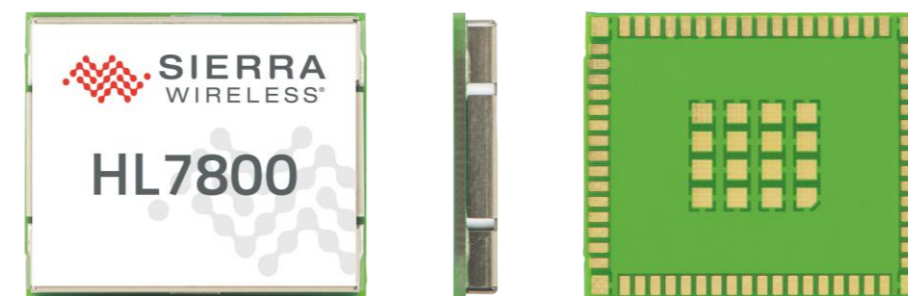
### Peripheral Interfaces

- 12x GPIO
- External SIM
- 32kHz and 26MHz clock output

### Temperature Ranges

- -30C to +70C (operating class A)
- -40C to +85C (operating class B)

**Input voltage:** 3.2V to 4.5V



## Key Features

- **Compatible with HL Series** from 2G/3G/4G (Cat-4, Cat-1)
- **Extremely low power consumption** with PSM support (**1.8µA floor**)
- **Extremely low power consumption** with eDRX support (**<30µA floor**)
- **Extended Coverage** mode support
- **Embedded TCP/IP stack** with TCP, UDP, FTP, HTTP
- **Embedded Security** with HTTPS, Secure socket, Secure Boot
- **Embedded SIM** (Ready-to-Connect)
- **Extended power supply range**
- **Hardware ready for possible future VoLTE support**
- **GNSS** – GPS/GLONASS
- **Development tools:** HL Series development kit, MangOH, FW download tool

### Standard Features

- **Secure boot** prevents unauthorized code on the target
- **Free, unlimited FOTA** through AirVantage® FOTA Edition

## Certification and Approvals

- FCC, PTCRB, IC,GCF, JRF, JPA, KC, RCM
- AT&T, Verizon, T-Mobile, Vodafone, Telstra, KDDI, Docomo