



Air Interface: Cat-M1,Cat-NB1

Region: Global

Planned Carrier: Telstra,Verizon,AT&T,Vodafone,KDDI,T-Mobile,Rogers

## AirPrime<sup>®</sup> HL7800 LPWA Module

**World's smallest multi-mode LPWA module offering 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 standard and is Release 14 ready to support NB2 features in the future, providing a new low-cost, best-in-class power technology for low-bandwidth IoT applications with extended reach beyond traditional cellular.

Delivering up to 300Kbps download speed and 375Kbps upload speed, this module is ideal for simple static sensor applications, or real-time fixed or mobile applications such as asset tracking and monitoring, industrial equipment, consumer wearables, smart city, healthcare and agricultural monitoring devices.

Design now with LPWA modules in the CF3<sup>®</sup> form factor and scale to 3G or 4G networks in the future as the application evolves.

## Benefits



### *Common Form Factor*

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

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### *Global*

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

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### *Embedded SIM*

Ready-to-Connect solutions streamline operations and add future flexibility (optional)\*

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*FOTA Upgrades*

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

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*Cloud Connected*

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

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*Secure Boot*

Prevent unauthorized code on the target to keep your connectivity secure

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*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\*

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*TCP/IP Stack*

Embedded stack to easily communicate over the internet

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*Programmability*

Basic and Extended AT Commands simplify development

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*Industrial-Grade*

Tested for harsh environments and extreme temperatures

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\*Supported as a future firmware upgrade

## Technical Specifications

### 4G LTE

Category	Cat-M1/NB1
Frequency Bands	B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B14, B17, B18, B19, B20, B25, B26, B27, B28, B65, B66

### Data Speed

Peak Download Rate	300Kbps
Peak Upload Rate	375Kbps

### Embedded Software

Firmware	Pre-certified firmware, Secure boot
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### 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

Planned Carrier AT&T, KDDI, Rogers, T-Mobile, Telstra, Verizon, Vodafone

Regulatory FCC, GCF, IC, JRF, JPA, PTCRB

## Cloud Services

Free Unlimited FOTA upgrades, Connectivity Management option\*, Device Management option\*

## Connectivity

Optional Ready-to-Connect Sierra Wireless embedded SIM\*

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\* Supported as a future firmware upgrade



Sierra Wireless is an IoT pioneer, empowering businesses and industries to transform and thrive in the connected economy.

<https://www.sierrawireless.com/products-and-solutions/embedded-solutions/products/hl7800/> 3-20-18