

AirPrime® HL7802 LPWA Module

LPWA 2G



Air Interface: Cat-M1,Cat-NB1 with 2G fallback

Region: Global

Planned Carrier: Vodafone,AT&T,Verizon

World's smallest multi-mode LPWA module offering 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 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® form factor and scale to 3G or 4G networks in the future as the application evolves.

	Benefits	
	Ready-to-Connect	Access best-in-class connectivity, reduce total cost of ownership, and strengthen end-to-end security with <u>Ready-to-Connect</u> modules from the RC Series
(CF3°)	Common Form Factor	Compact <u>CF3® design</u> 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	FOTA Upgrades	FREE unlimited <u>firmware over-the-air (FOTA)</u> upgrades future-proof deployments and keep them secure
	Cloud Connected	Securely collect data and remotely manage your IoT deployments with integrated <u>AirVantage®</u> cloud services*
	Secure Boot	Prevent unauthorized code on the target to keep your connectivity secure
	Ultra-Low Power Mode	Best-in-class power performance extending the life of battery operated devices by 5-10X
\bigcirc	Location Services	Integrated GNSS receiver enables tracking and location-based services*
TCP/IP	TCP/IP Stack	Embedded stack to easily communicate over the internet
< A T>	Programmability	Basic and Extended AT Commands simplify development
<at></at>	Industrial-Grade	Tested for harsh environments and extreme temperatures
VoLTE	VoLTE	Enhance IoT applications with voice commands or call capabilities*

*Future release / firmware upgrade

Technical Specifications	
4G LTE Category Frequency Bands	Cat-M1/NB1 B1, B2, B3, B4, B5, B8, B9, B10, B12, B13, B14, B17, B18, B19, B20, B25, B26, B27, B28, B66
2G GPRS GSM	850, 900, 1800, 1900 850, 900, 1800, 1900
DATA SPEED Peak Download Rate Peak Upload Rate	300Kbps 375Kbps
LOCATION SERVICES Satellite Systems	GPS+Glonass*
EMBEDDED SOFTWARE Firmware Audio System Drivers	Secure boot*, Pre-certified firmware Digital Audio*, VoLTE* Linux Driver: Standard ECM
INTERFACES UART USB ADC GPIO Tx ON Indicator SIM interface 1.8V/3V	1 X 8-wire 1 2 8 1 1
HARDWARE CF3 Form Factor Dimensions Temperature Range	LGA 15x18x2.4mm Industrial Grade: -40°C / +85°C
APPROVALS Planned Carrier Regulatory	AT&T, Verizon, Vodafone FCC, GCF, IC, PTCRB
EMBEDDED SIM	Optional Ready-to-Connect (Sierra Wireless USIM)*
CLOUD SERVICES	Free Unlimited FOTA upgrades, Connectivity Management option, Device Management option
	* Future release / firmware upgrade

https://www.sierrawireless.com/products-and-solutions/embedded-solutions/products/hl7802/3-13-20