Sierra Wireless AirPrime[®] Embedded Modules HL Series



Compact, Flexible, and Future Proof 2G, 3G, and 4G Essential Modules

Sierra Wireless AirPrime® HL embedded modules offer everything device manufacturers need to meet essential connectivity requirements for energy solutions such as smart grid or smart meter applications. Key differentiators include a common form factor, small size, low-power consumption, enhanced RF performance, optional GNSS (GPS and GLONASS), and worldwide coverage.

COMPACT: THE SMALLEST 2G TO 4G FORM FACTOR ON THE MARKET

The HL Series is the smallest module on the market sharing a common form factor across 2G, 3G, and 4G technologies. Now, with just one PCB design, device manufacturers can easily integrate voice and data connectivity and deploy in any region, on any wireless mobile network.

FLEXIBLE: SOLDER DOWN OR CHOOSE THE SNAP-IN SOCKET TO SWITCH MODULES ANY TIME

The compact form factor offers the choice of soldering down the module for efficient high-volume production or, using a snap-in socket on the same solder pads for total flexibility in prototyping or smaller volume runs. The innovative snap-in socket allows device manufacturers to deploy or change modules at any point in the production and product life cycles.

FUTURE PROOF: INTELLIGENT PIN-TO-PIN COMPATIBILITY TO SUPPORT EVOLVING TECHNOLOGIES

The core and extension pins on the common form factor enables forward and backward compatibility between the different 2G, 3G, and 4G module variants. This means that the mechanical pin location delivers the same function across the series. The optional custom pins allow for new features as technology evolves making it the most future proof module on the market.

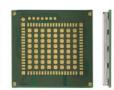


EASY TO INTEGRATE AND MANAGE

The HL Series can be managed remotely with AirVantage® Management Service, enabling device manufacturers to securely upgrade device firmware over-the-air. This can extend the life of your products and solutions by future-proofing remote assets, expanding service quality, and saving customers time and operating costs.

Essential







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	HL75xx Series	HL8548	HL6528
FORM FACTOR	LGA	LGA	LGA
AIR INTERFACE			
	LTE & LTE/HSPA	GSM/GPRS/EDGE/HSD/PA/HSUPA	GSM/GPRS
FREQUENCY BANDS			
LTE	HL7519: B2/B4/B13 HL7528: B1/B3/B5/B7 HL7548: B2/B4/B5/B13/B17 HL7549: B3/B7/B28 HL7588: B2/B4/B5/B13/B17		
HSPA	HL7588: B2/B5	B1/B2/B5/B6/B8	
EDGE		850/900/1800/1900	
GSM/GPRS		850/900/1800/1900	850/900/1800/1900
APPROVALS		000,000,1000,1000	000,000,1000,1000
Regulatory	PTCRB, FCC, GCF, IC, KC Mark	CE, FCC, PTCRB, GCF, IC, Anatel, CCC	CE, FCC, PTCRB, GCF, IC, Anatel, CCC
Carrier	Depends on Models: AT&T, Verizon, Rogers, KT, SKT, LGU+	AT&T, Vodafone, NTT	Approved in many carriers over the world
CURRENT CONSUMPTION			
Power Supply for Extended Battery Life	2.8V supports	2.8V supports	2.8V supports
Alarm (leakage only)	110µA	40μA	35µA
Standby and Idle (Sleep)	LTE: 1.5 mA	1.2 mA	1 mA
GSM/GPRS max		360 mA	360 mA
HSxPA max	HL7588: 560 mA	560 mA	
LTE max	CAT 4: 750 mA		
AUDIO			
Analog Audio			
Digital Audio	√ depends on the variants		
Codec	depends on the variants	HR, FR, EFR, AMR	HR, FR, EFR, AMR
Echo Cancellation & Noise Reduction	depends on the variants		
DTMF	depends on the variants	✓	✓
INTERFACES	4.0 lines	6 O Boss	O line on
UART	√ 8 lines	✓ 8 lines	√ 8 lines
USB SPI	✓	✓	
ADC	2	2	2
GPIO	8	8	8
Flash LED Output	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	0
PWM (Buzzer)	1	1	2
Tx Burst Indicator	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<i>✓</i>
SIM interface 1.8V/3V		1 SIM DSDS support	2 SIM DSDS support
LOCATION SOLUTION	•	. c.m. zeze support	z em Bebe support
		GPS & Glonass Sirf V	GPS & Glonass Sirf V
CLOUD SERVICES			
	FOTA through AVMS	FOTA through AVMS	FOTA through AVMS
INTERNET SERVICES			
	TCP+UDP+FTP+HTTP+HTTPS	TCP+UDP+FTP+HTTP+HTTPS	TCP+UDP+FTP+HTTP+HTTPS
DRIVERS	USB drivers for Linux, Android, Win CE,	USB drivers for Linux, Android, Win CE,	RIL driver for Win CE & Linux
DEVICE DIMENSIONS	Win8	Win7, Win XP	
DEVICE DIMENSIONS	22v22v2 5 mm	20v22v2 5 mm	20v22v2.5 mm
TEMPEDATURE DANCE	22x23x2.5 mm	22x23x2.5 mm	22x23x2.5 mm
TEMPERATURE RANGE	- 40°C / + 85°C	- 40°C / + 85°C	- 40°C / + 85°C

About Sierra Wireless

Sierra Wireless is the global leader in machine-to-machine (M2M) devices and cloud services, delivering intelligent wireless solutions that simplify the connected world. Our solutions are **simple**, **scalable**, and **secure**, and enable customers to get their connected products and services to market faster.

For further company and product information, please visit www.sierrawireless.com.

