

Sierra Wireless AirPrime® Embedded Wireless Modules HL Series and WS6318

Compact 2G, 3G, and 4G Modules for Essential M2M Connectivity

Sierra Wireless AirPrime® HL Series and AirPrime WS6318 are compact and easy-to-integrate modules for voice and data connectivity. They provide everything device manufacturers need to meet essential connectivity requirements for machine-to-machine (M2M) applications.

Features including compact size, high-quality, low power consumption, and enhanced RF performance make these 2G, 3G, and 4G modules ideal for use in designs where size, power consumption, and worldwide coverage are key differentiators. These modules are ideal for applications in healthcare, point of sale terminals, fleet management, tracking, and consumer electronics.

AIRPRIME HL SERIES: THE SMALLEST 2G TO 4G FORM FACTOR ON THE MARKET

The AirPrime HL Series is the smallest, scalable, flexible solution across 2G, 3G, and 4G* technologies, and optionally contains GNSS. The HL Series provides device manufacturers with the ability to serve different regions, across multiple network technologies, with one device design.

The HL Series common form factor provides device manufacturers the choice of soldering down the module for efficient high-volume production or, using a snap-in socket on the same solder pads. The innovative snap-in socket allows OEMs to deploy modules at any point in the production and product life cycles. This provides device manufacturers flexibility to build with 2G modules in current deployments and then swap 2G modules for 3G or 4G modules in the future, even in completed and field-deployed devices.

Sierra Wireless AirVantage® Management service comes ready-to-use with HL modules so device manufacturers can easily and securely upgrade device firmware over-the-air, effectively future-proofing remote assets, extending service quality, and saving customers time and operating costs.

The HL6528 supports quad-band GSM/GPRS and enhanced GNSS (GPS and GLONASS). The HL8548 additionally supports pentaband HSDPA/HSUPA and quad-band EDGE for global coverage. The HL6528 also provides enhanced multi-network coverage, thanks to Dual SIM Dual Standby technology, which allows continuous operations. Both offer extremely low power consumption and an extended power supply range, significantly improving battery-powered applications.

AIRPRIME WS6318: ESSENTIAL M2M IN A TINY PACKAGE

The world's first 2G module available at 15x18 mm, the WS6318 delivers dual-band 900/1800 GSM/GPRS connectivity with advanced audio capabilities (configurable PCM), TCP/IP and FTP. Protected by a layer of conformal coating, a unique technology in the wireless module market, this LGA package provides an extremely resistant module to be used in harsh environmental conditions.

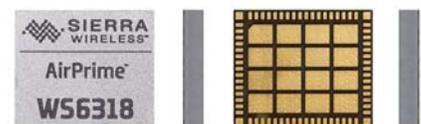
* 4G module specs to be announced



KEY BENEFITS

- Small and easy to use
- Reliable, proven M2M connectivity
- Scalable: one footprint across 2G, 3G, and 4G technologies; ensures easy migration path

Essential



AirPrime™

Sierra Wireless AirPrime[®] Embedded Wireless Modules HL Series and WS6318

	HL8548	HL6528	WS6318
FORM FACTOR	LGA	LGA	LGA
AIR INTERFACE	GSM/GPRS/EDGE/HSDPA/HSUPA	GSM/GPRS	GSM/GPRS
FREQUENCY BANDS			
HSPA	800/850/900/1900/2100		
EDGE	850/900/1800/1900		
GSM/GPRS	850/900/1800/1900	850/900/1800/1900	900/1800 MHz
APPROVALS			
Regulatory	CE, FCC, PTCRB, GCF, IC, Anatel,CCC	CE, FCC, PTCRB, GCF, IC, Anatel,CCC	CE , R&TTE
Carrier	Target: AT&T, Rogers, Vodafone, Orange, Telefonica	Target: Rogers, Vodafone, Orange, Telefonica	Orange
CURRENT CONSUMPTION			
Power Supply for Extended Battery Life	2.8V supports	2.8V supports	
Alarm (leakage only)	40µA	35µA	46 µA
Standby and Idle (Sleep)	1.2 mA	1mA	1.3mA
GSM/GPRS max	360mA	360 mA	366mA
HSxPA max	560 mA		
AUDIO			
Analog Audio	✓	✓	✓
Digital Audio	✓	✓	✓
Codec	HR,FR,EFR,AMR	HR,FR,EFR,AMR	HR, FR, EFR, AMR
Echo Cancellation & Noise Reduction	✓	✓	✓
DTMF	✓	✓	✓
INTERFACES			
UART	✓ 8 lines	✓ 8 lines	✓ 8 lines
USB	✓		
SPI		✓	
ADC	2	2	2
GPIO	8	8	Up to 11
Flash LED Output	✓		✓
PWM (Buzzer)	1	2	2
Tx Burst Indicator	✓	✓	✓
SIM interface 1.8V/3V	1 SIM DSSS support	2 SIM DSDS support	✓
LOCATION SOLUTION	GPS & Glonass Sirf V	GPS & Glonass Sirf V	
CLOUD SERVICES	FOTA through AVMS	FOTA through AVMS	
INTERNET SERVICES	TCP+UDP+FTP+HTTP+HTTPS	TCP+UDP+FTP+HTTP+HTTPS	TCP+UDP : Client and Server FTP : Client
DRIVERS	USB drivers for Linux, Android, Win CE, Win7, Win XP	Ril driver for Win CE & Linux	
DEVICE DIMENSIONS	22x23x2.5 mm	22x23x2.5 mm	15 x 17.8 x 2.5 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.