

Sierra Wireless AirPrime™ Embedded Wireless Modules WS Series

Compact 2G Modules for Industrial M2M

Sierra Wireless AirPrime™ WS Series provides a range of highly compact and easy-to-integrate modules for voice and data connectivity.

Get all the radio, processing, memory, and proven software you need in a sleek small package.

Available in 2G GSM/GPRS, the AirPrime WS Series modules match your essential connectivity requirements for industrial M2M applications.

Choose the AirPrime WS Series for your healthcare, point of sale, consumer electronics or tracking wireless solutions.

AIRPRIME WS6318

Smaller Than Ever

Drawing on 15 years of experience in M2M, Sierra Wireless introduces the smallest wireless module ever conceived. With the WS6318, push the limits and expand your scope of solutions: your connectivity now fits within 15 x 18 mm.

New Packaging Technology

Protected by a layer of conformal coating, a unique technology in the wireless module space, the LGA package of the WS6318 is extremely resistant to harsh environmental conditions.

Essential M2M Connectivity

The AirPrime WS6318 module is a dual-band 900/1800 GSM/GPRS modem with advanced audio capabilities (configurable PCM), TCP/IP and FTP.

AIRPRIME WISM0218/228

Easy to use

For easy manual or automated integration, the WISM0218 and the WISM0228 are designed with a 25 x 25 mm LCC castellation package.

AirPrime WISM0218

The AirPrime WISM0218 module is a dual-band 900/1800 GSM modem.

AirPrime WISM0228

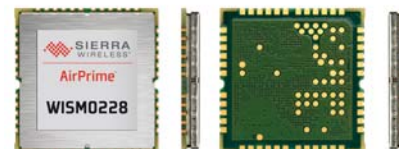
The AirPrime WISM0228 delivers the same features as WISM0218 in an identical package, and adds quad-band 850/900/1800/1900 GSM connectivity.



KEY BENEFITS

- Smaller than ever
- Easy to use
- Essential M2M connectivity
- Proven firmware

Compact



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	WS6318	WISM0218	WISM0228
AIR INTERFACE			
	GSM/GPRS	GSM/GPRS	GSM/GPRS
FREQUENCY BANDS			
GSM/GPRS	900/1800 MHz	900/1800 MHz	850/900/1800/1900 MHz
APPROVALS			
Regulatory	CE, GCF-CC, R&TTE	CE, GCF-CC, R&TTE	CE, GCF-CC, R&TTE, PTCRB, FCC, IC
Carrier	-	-	AT&T
CURRENT CONSUMPTION			
Alarm	50 µA	50 µA	50 µA
GSM Idle	1.3mA	1.3mA	1.22mA
GSM/GPRS max	366mA 2Tx/3Rx, PCL5 (GPRS Class 10)	366mA 2Tx/3Rx, PCL5 (GPRS Class 10)	371mA 2Tx/3Rx, PCL5 (GPRS Class 10)
Power range	3.2 to 4.8 V	3.2 to 4.8 V	3.2 to 4.8 V
AUDIO			
Analog audio	2 x speaker out -1 x micro in	1 x speaker out -1 x micro in	1 x speaker out -1 x micro in
Digital audio	PCM	-	-
Codec	HR, FR, EFR, AMR	HR, FR, EFR, AMR	HR, FR, EFR, AMR
Echo Cancellation & noise reduction	✓	✓	✓
DTMF	✓	-	-
INTERFACES			
UART	✓	✓	✓
SPI	-	✓	✓
GPIO	Up to 11	Up to 11	Up to 11
RTC	✓	✓	✓
Module ready	✓	✓	✓
Tx burst	✓	✓	✓
Flash LED output	✓	✓	✓
PWM (Buzzer)	✓	✓	✓
SIM interface	1.8V/3V	1.8V/3V	1.8V/3V
CONTROL OPTIONS			
	AT commands	AT commands	AT commands
INTERNET SERVICES			
	TCP/UDP - FTP	TCP/UDP	TCP/UDP
PACKAGE			
	LGA	LCC castellation	LCC castellation
DEVICE DIMENSIONS			
	15 x 17.8 x 2.5 mm	25 x 25 x 2.8 mm	25 x 25 x 2.8 mm
TEMPERATURE RANGE			
	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C