# Sierra Wireless AirPrime™ Wireless Embedded Modules Q Series



## A Single Form Factor for Multiple Technologies

Conceived for rapid mounting in electronic machine-to-machine equipment, the Sierra Wireless AirPrime Q Series of intelligent embedded modules allows you to make one single product design which can communicate on any cellular protocol, anywhere around the world. All AirPrime Q Series intelligent embedded modules are footprint compatible to smooth product development and simplify upgrading.

Choose an AirPrime Q Series intelligent embedded module when you need one or more of the following:

- Programmable capabilities\*
- Multi-standard wireless
- Future-proof bearer evolution
- A field replaceable product

In addition, any AirPrime Q Series modules that support Open AT® include an embedded TCP/IP stack that can be controlled with simple AT commands.

### AIRPRIME Q26 EXTREME

The dual-mode 2G/3G/3G+ AirPrime Q26 Extreme supports peak data rates up to 7.2 Mbps HSDPA and 2 Mbps HSUPA with automated 2G/3G handover.

### AIRPRIME Q26 ELITE

The Q26 Elite features the Qualcomm QSC6055 chipset and integrates Qualcomm gpsOne® technology, making it uniquely suited for fleet management and tracking applications with E911 requirements. It supports an extended temperature range of -40°C to +85°C.

#### AIRPRIME Q2687

With an extended temperature range of -40°C to +85°C, the Q2687 intelligent embedded module offers a wide range of interfaces including USB, UART, SPI and a parallel data bus, as well as data bearers up to EDGE. Certified for use in the North American market.

#### AIRPRIME Q2686

Equipped with on-board audio recording facilities, the Q2686 is well suited for alarm systems and IVR (Interactive Voice Response) product designs. It also



#### **KEY BENEFITS:**

- Form-factor compatibility
- High-speed data transmission on any cellular network
- Software designed for M2M
- Remote monitoring and upgrade
- European Union's RoHS compliant
- Manufactured by
  ISO/TS 16949-certified OEM





# Sierra Wireless AirPrime™ Wireless Embedded Modules Q Series

	Q2686	Q2687	Q26 Extreme	Q26 Elite
AIR INTERFACE	GSM/GPRS	GSM/GPRS/EDGE	HSDPA 7.2 Mbps HSUPA 2 Mbps	CDMA 1xRTT
REQUENCY BANDS				
SM/GPRS/EDGE	850/900/1800/1900 MHz	850/900/1800/1900 MHz	850/900/1800/1900 MHz	
VCDMA			850/1900/2100 MHz	
DMA 1xRTT				800/1900 MHz
PPROVALS				
Regulatory	R&TTE, CE, GCF, FCC, PTCRB, China	R&TTE, CE, GCF, FCC, PTCRB, China	R&TTE, CE, GCF, FCC, PTCRB, China	FCC, IC, CDG 1&2
arrier		AT&T		
OWER	170	17 4	17	
larm	17uA	17uA	17uA	5 A
tandby and Idle	2,5mA 400mA max	2,5mA 400mA max	2,5mA 600mA max	5mA
SM/GPRS max	GPRS class 10	GPRS class 10	GPRS class 10	
SxPA max			820mA max; HSDPA full power	
PU PERFORMANCES				
rocessor	ARM946 / DSP	ARM946 / DSP	ARM946 / DSP	ARM9
ore frequency	26-104 MHz	26-104 MHz	26-104 MHz	192 MHz
ser MIPS available	87 MIPS	87 MIPS	87 MIPS	
voltage	1V8-2V8	1V8-2V8	1V8-2V8	1V8-2V8
סוסע				
nalog audio	2 x speaker out -2 x micro in	2 x speaker out -2 x micro in	2 x speaker out -2 x micro in	2 x speaker out -2 x micro in
igital audio	✓	$\checkmark$	✓	
odec	HR, FR, EFR, AMR	HR, FR, EFR, AMR	GSM: HR, FR, EFR, AMR	EVRC/QCELP/EVRC-B
			WCDMA: AMR	
uality	VDA2A	VDA2A	VDA2A	
cho cancellation & noise reduction	√	✓	✓	✓
TMF	$\checkmark$	$\checkmark$	✓	✓
ITERFACES		<u>^</u>	0	2
ART	2	2	2	2
SB	USB 2.0 Full Speed (12 Mbps)	USB 2.0 Full Speed (12 Mbps)	USB 2.0 Full Speed (12 Mbps)	Device 2.0 (Full Speed)
PI	2	2	2	
20	1	1	1	1
DC	2	2	2	2
AC		1	1	
PIO	Up to 44	Up to 44	Up to 45 GPIO's	Up to 20*
TC		√		
imers (HW, SW, Capture)		✓	······	n/a
iterrupts pins	2	2	3	n/a
lash LED output	1	1	1	1
WM (Buzzer)	1	1	1	1
eyboard interface	5x5	5x5	5x5	5x5
IM interface	1.8V/3V	1.8V/3V	SIM and U-SIM	RUIM
NTENNA DIVERSITY				
			$\checkmark$	
OCATION SOLUTION	AirDrives VM0110 OD0 readule and	AirDrings VM0140 OD0 marshile and	AirDrines VM0110 OD0 reacture and	
	AirPrime XM0110 GPS module and Location Library	AirPrime XM0110 GPS module and Location Library	AirPrime XM0110 GPS module and Location Library	gpsOne
MBEDDED SIM			Location Library	
	√	√		
ONTROL OPTIONS				
	AT commands, C/C++ language; Lua	AT commands, C/C++ language; Lua	AT commands, C/C++ language; Lua	AT commands
	script	script	script	
MBEDDED APPLICATION FRAMEWORK				
	Open AT® OS	Open AT® OS	Open AT® OS	
ANAGEMENT SERVICES				
	$\checkmark$	$\checkmark$	$\checkmark$	
CP/IP				
	TCP/UDP/FTP/HTTP/SMTP/POP3/ SNMP/SSL	TCP/UDP/FTP/HTTP/SMTP/POP3/ SNMP/SSL	TCP/UDP/FTP/HTTP/SMTP/POP3/ SNMP/SSL	TCP/UDP
RIVERS			C. MAR / OOL	
indows <sup>®</sup> Mobile/CE	√	✓	√	
/indows <sup>®</sup> XP/Vista	✓ · · · · · · · · · · · · · · · · · · ·	✓ ✓	✓ ✓	√
	-	•••		
	√	·····		
/indows <sup>®</sup> 7		$\checkmark$	$\checkmark$	$\checkmark$
inux	√			
inux EVICE DIMENSIONS		32 x 40 x 4 mm	32 x 40 x 6 55 mm	32 x 40 x 6 63 mm
inux	√ 32 x 40 x 4 mm	32 x 40 x 4 mm	32 x 40 x 6.55 mm	32 x 40 x 6.63 mm

\* Multiplexed

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