Sierra Wireless AirLink® Programmable Modems FX and GL Series

Rugged and Programmable Connectivity for M2M Applications

The AirLink FX and GL Series programmable modems bring global 2G or 3G connectivity to any M2M system. You can either connect existing non-wireless systems or create new wireless products.

Designed to operate in harsh conditions, these plug-and-play solutions offer ruggedized connectivity.

Featuring a C/C++ application framework and a cloud-based device management service, the AirLink FX and GL Series allow you to simplify and accelerate your M2M deployment.

KEY BENEFITS:

- Reach global 2G and 3G markets with a rugged plug-and-play modem
- Expand capabilities with the Open AT Application Framework
- Protect your investment with a device-management cloud platform

AIRLINK FX SERIES

The AirLink FX Series provides a highly expandable M2M solution, with versions supporting quad-band EDGE or 5-band HSPA+ with GPS.

Expand your capabilities with optional X-cards to add functionalities of your choice such as Ethernet. Use available Sierra Wireless and third-party X-cards or simply develop your own.

AIRLINK GL SERIES

Among the world's smallest ready-to-go cellular modems, the AirLink GL Series plugs into any system and provides quad-band GSM/GPRS connection in a snap. It comes with SON-8 embedded SIM as an option.

ADVANCED SOFTWARE CAPABILITIES

Open AT® Application Framework

The AirLink FX and GL Series feature the Open AT Application Framework to make software application development easier and less expensive. Its software building blocks and tools are field-proven, with a 10-year track record.

A Comprehensive Set of Libraries

Open AT features a best-in-class embedded IP stack, a security library, a location library and a large set of audio APIs.

DEVICE MANAGEMENT

The AirLink FX and GL Series enable access to AirVantage™ Management Service to remotely monitor, troubleshoot and upgrade your systems in the field through a web portal or web 2.0 APIs.

SIERRA WIRELESS™ | AirLink™

Sierra Wireless AirLink® Programmable Modems FX and GL Series

	FXT009	FX100	GL6100/GL6110
AIR INTERFACE			
	EDGE	HSPA+	GSM/GPRS
FREQUENCY BANDS			
GSM/GPRS/EDGE	850/900/1800/1900 MHz	850/900/1800/1900 MHz	850/900/1800/1900 MHz
WCDMA		800/850/900/1900/2100 MHz	
APPROVALS			
Regulatory	R&TTE, CE, GCF, FCC, IC, A-Tick, E-Mark, ICASA, UL, PTCRB	R&TTE, CE, GCF-CC, FCC, IC, PTCRB, A-Tick	R&TTE, CE, GCF, FCC, IC, NCC, ICASA, PTCRB
Carrier	AT&T, Rogers, Vodafone	Telstra, AT&T (planned in H1 2014)	
POWER			
Alarm	400µA	780µA	
Standby and Idle	1.9mA	1.7mA	3mA
GSM/GPRS max	102mA / 166mA (GPRS class 10)	110mA / 185mA (GPRS class 10)	400mA (GPRS class 8)
HSxPA max		243mA	
CPU PERFORMANCES			
Processor	ARM946 / DSP	ARM1136	ARM946 / DSP
Core frequency	104 MHz / 26 MHz	480 MHz	104 MHz / 26 MHz
User MIPS available	87 MIPS	500 MIPS	87 MIPS
AUDIO			
Analog audio	1 x speaker out -1 x micro in	1 x speaker out -1 x micro in	
Digital audio	with expansion card	PCM	
Codec	HR, FR, EFR, AMR	GSM: HR, FR, EFR, AMR WCDMA: AMR	HR, FR, EFR, AMR
Quality	VDA2A		VDA2A
Echo Cancellation & noise reduction	✓ (high)	✓	
DTMF	✓	✓	✓
INTERFACES			
UART	2 (1 on internal expansion connector)	2 (1 on internal expansion connector)	GL6100
USB	USB 2.0 Full Speed (12 Mbps)	USB 2.0 Full Speed (480 Mbps)	GL6110
SPI	2 on internal expansion connector	2 on internal expansion connector	
I2C	1 on internal X-card connector	1 on internal X-card connector	
ADC	1 on internal expansion connector	1 on internal expansion connector	
DAC	1 on internal expansion connector		
GPIO	2 (2,6V-15V) + 7 on internal expansion connector	2 (2,6V-15V) + 7 on internal expansion connector	
RTC	✓	✓	
Timers (HW, SW, Capture)	✓	✓	✓
Interrupts pins	1 on internal expansion connector	1 on internal expansion connector	
Flash LED output	Network	Network	Network
SIM interface	SIM socket (1,8V/3V)	SIM socket (1,8V/3V)	SIM socket (1,8V/3V)
X-cards	✓	✓	
ANTENNA DIVERSITY			
		✓	
LOCATION SOLUTION			
	Third-party X-card	GPSOne XTRA™ and Location Library	
EMBEDDED SIM			
		✓	✓
CONTROL OPTIONS			
	AT commands, C/C++ language	AT commands, C/C++ language	AT commands, C/C++ language
APPLICATION FRAMEWORK			
	Open AT®	Open AT®	Open AT®
DEVICE MANAGEMENT			
	✓	✓ (planned in H1 2014)	✓
HOST OS COMPATIBILITY			
Windows® Mobile	✓	✓	✓
Windows® CE	✓	✓	✓
Windows®XP	✓	✓	✓
Windows® 7	✓	✓	✓
Windows® Vista	✓	✓	✓
DEVICE DIMENSIONS			
	89 x 60 x 30 mm	89 x 60 x 30 mm	67 x 51,5 x 23,5 mm
OPERATIONAL TEMPERATURE			
	-30°C to +75°C	-30°C to +75°C	-30°C to +75°C

SIERRA WIRELESS™ | AirLink™