

# Sierra Wireless AirPrime<sup>®</sup> Embedded Wireless Modules MC Series

## High-Speed Connectivity for Industrial Applications and Mobile Computing

Sierra Wireless AirPrime<sup>®</sup> MC Series embedded modules deliver high speed connectivity with a variety of advanced air interfaces, including LTE frequencies, designed for industrial M2M and mobile computing solutions.

These modules support LTE, HSPA+, HSPA+ and EV-DO to address networks worldwide and are delivered with a comprehensive set of SDKs and enabling software.

AirPrime MC Series are standard PCI Express Mini Cards with a USB2.0 interface and industrial specifications\* to simplify integration and provide an easy upgrade path to new network technologies.

### MC73xx

LTE/HSPA+/GSM/GPRS/EDGE/EV-DO Rev A/1xRTT modules, with data speeds up to 100Mbps downlink and 50 Mbps uplink and based on the latest chipset. MC7354/50/50-L/04 feature LTE Quality of Service, VoLTE\*\*/CSFB voice on 3G/2G/CDMA 1xRTT network and an extended set of LTE bands covering worldwide operators.

### MC9090

HSPA+/EVDO module with multimode functionality to switch from one operator to another in North America with one single product reference. It features industrial temperature rating, voice and support quad-band GSM/GPRS/EDGE.

### MC8805

HSPA+, GSM/GPRS/EDGE modules and support 42 Mbps downlink and 5.76 Mbps uplink speeds for worldwide market.

### MC77xx

LTE/HSPA+ or LTE/EV-DO modules, with data speeds up to 100Mbps downlink and 50Mbps uplink.

### MC809x

HSPA+ tri-band or dual-band modules for global deployments, as well as quad-band GSM/GPRS/EDGE and voice support.

### MC870x

HSPA+ quad-band modules, offering up to 21 Mbps download speed. MC8704 supports voice.

### MC5728V

EV-DO Rev A module providing compatibility with widely available CDMA EV-DO Rel 0 and 1x networks and voice support.

\*Industrial specifications apply to MC73xx, MC9090, MC8805, MC809x

\*\*VoLTE feature is coming soon



#### KEY BENEFITS:

- Easy to integrate: Standard PCI Express Mini Card form factor with industrial specifications\*
- High-speed cellular connectivity with the latest technologies and multi-operator support
- Easy upgrade path to new network technologies

Essential



# Sierra Wireless AirPrime<sup>®</sup>

## Embedded Wireless Modules

### MC Series

## Specifications

	MC528V	MC809x	MC9090	MC870x	MC77xx
<b>AIR INTERFACE</b>	EV-DO Rev A, 1xRTT	HSPA+,GSM/GPRS/EDGE	HSPA+,GSM/GPRS/EDGE, EV-DO Rev A, 1xRTT	HSPA+,GSM/GPRS/EDGE	LTE,HSPA+,GSM/GPRS/EDGE,EV-DO Rev A (MC7750), 1xRTT (MC7750)
<b>DATA SPEED</b>					
Peak Download Rate	3.1Mbps	14.4Mbps	HSPA+ 14.4Mbps EVDO 3.1Mbps	21.1 Mbps	100 Mbps
Peak Upload Rate	1.8Mbps	5.76Mbps	HSPA+ 5.76Mbps EVDO 1.8Mbps	5.76 Mbps	50 Mbps
<b>FREQUENCY BANDS</b>					
LTE					MC7700: 2100(B1), AWS(B4), 700(B17) MC7710: 2100(B1), 1800(B3), 2600(B7), 900(B8), 800(B20) MC7750: 700(B13)
WCDMA		MC8090: 850/1900/2100 MHz MC8092: 900/2100 MHz	800/850/1900/2100 MHz	850/900/1900/2100 MHz	MC7700: 2100(B1), 1900(B2), 850(B5) MC7710: 2100(B1), 900(B8)
CDMA 1xRTT/EV-DO Rev A	800/1900 MHz		800/1900 MHz		MC7750: 800(BC0), 1900(BC1)
GSM/GPRS/EDGE		850/900/1800/1900 MHz	850/900/1800/1900 MHz	Quad-band	Quad-Band
<b>APPROVALS</b>					
Regulatory	FCC, IC	MC8090: FCC, IC, PTCRB MC8092: CE, GCF-CC	FCC, IC, PTCRB, NCC	CE, FCC, IC, NCC, PTCRB, GCF-CC	MC7700: FCC, IC, NCC, PTCRB, JATE/TELEC MC7710: CE, GCF-CC, NCC MC7750: FCC, IC, NCC
Carrier	Verizon, Sprint, Aeris	AT&T, NTT DoCoMo	AT&T, Sprint, Verizon	Bell, Telstra, Telus (MC8704), NZ Telecom (MC8704), AT&T (MC8705)	MC7700: AT&T, NTT Docomo, Bell, Telus, Roger MC7710: T-Mobile MC7750: Verizon
<b>CPU PERFORMANCES</b>					
IO voltage	1.8 V	1.8 V	1.8 V	1.8V (MC8704)	1.8V
<b>AUDIO</b>					
Analog audio	1 x speaker out -1 x micro in				
Digital audio	PCM	PCM	PCM	MC8704: I2S	
Codec	HR, FR,EFR, AMR			(MC8704): AMR-NB, GSM-EFR, GSM-FR, GSM-HR, GSM CTM	
Echo cancellation & noise reduction	✓	✓	✓	MC8704: ✓	
DTMF	✓	✓	✓	MC8704: ✓	
<b>INTERFACES</b>					
UART	1X 8 wire	1X 4-Wire	1X 8 wire		
USB	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed
Main Radio Disable	✓	✓	✓	✓	✓
Vref	2.6V	1.8V	1.8V		
ADC	1				
GPIO	4	4	4	6	4
Flash LED output	1	1	1	1	1
SIM interface		1.8 or 3V	1.8 or 3V	1.8 or 3V	1.8 or 3V
<b>ANTENNA</b>					
U.FL Antenna Connectors	2	3	3	2	3
Diversity	✓	✓	✓	✓	✓
MIMO					✓
GPS Bias					✓
<b>LOCATION SOLUTION</b>	Standalone, gpsOne™	Standalone, A-GPS, gps XTRA	Standalone, A-GPS, gps XTRA	Standalone, A-GPS, gps XTRA	Standalone, A-GPS, gps XTRA, Glonass
<b>CONTROL OPTIONS</b>	AT commands, CnS	AT commands, CnS	AT Commands, Gobi API	AT Commands, CnS	AT Commands, Gobi API
TCP/IP	TCP/UDP	TCP/UDP	TCP/UDP		
<b>DRIVERS</b>					
Windows <sup>®</sup> Mobile 6.5	✓	✓	✓	✓	
Windows <sup>®</sup> CE 6.0	✓	✓	✓	✓	
Android		✓	✓	✓	✓
Linux	✓	✓	✓	✓	✓
<b>DEVICE DIMENSIONS</b>	51 x 30 x 4.5mm	51 x 30 x 4.5mm	51 x 30 x 4.5mm	51 x 30 x 4.5mm	51 x 30 x 4.75mm
<b>OPERATIONAL TEMPERATURE</b>	-30°C to +75°C	-40°C to +85°C	-40°C to +85°C	-25°C to +75°C	-25°C to +60°C

# Sierra Wireless AirPrime<sup>®</sup>

## Embedded Wireless Modules

### MC Series

## Specifications

	MC8805	MC7305	MC7304	MC7330
<b>AIR INTERFACE</b>	DC-HSPA+, HSPA+, GSM/GPRS	LTE,HSPA+,GSM/GPRS	LTE,HSPA+,GSM/GPRS	LTE,HSPA+,GSM/GPRS
<b>DATA SPEED</b>				
Peak Download Rate	42Mbps	100 Mbps	100 Mbps	100 Mbps
Peak Upload Rate	5.76 Mbps	50 Mbps	50 Mbps	50 Mbps
<b>FREQUENCY BANDS</b>				
LTE		2100(B1),1800(B3), 2600(B7),900(B8), 800(B20)	2100(B1),1800(B3), 2600(B7),900(B8), 800(B20)	2100 (B1), 850 (B19), 1500 (B21)
WCDMA	2100(B1) 1900(B2), 850(B5), 900(B8)	2100(B1),1900(B2) 850(B5), 900(B8)	2100(B1),1900(B2) 850(B5), 900(B8)	2100(B1), 850(B5), 850(B6), 850(B19)
CDMA 1xRTT/EV-DO Rev A				
GSM/GPRS/EDGE	Quad-Band	Quad-Band	Quad-Band	Quad-Band
<b>APPROVALS</b>				
Regulatory	CE, GCF, NCC	CE, GCF, NCC	CE, GCF-CC, NCC	JATE/TELEC, NCC
Carrier	Telefonica	Telstra	Planned: Telstra, Vodafone	NTT Docomo
<b>CPU PERFORMANCES</b>				
ID voltage	1.8V	1.8V	1.8V	1.8V
<b>AUDIO</b>				
Analog audio				
Digital audio			PCM/I2S	PCM/I2S
Codec				
Echo cancellation & noise reduction			✓	✓
DTMF			✓	✓
<b>INTERFACES</b>				
UART				
USB	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed
Main Radio Disable	✓	✓	✓	✓
GNSS Disable	✓	✓		✓
Vref				
ADC				
GPIO	4	4	4	4
Flash LED output	1	1	1	1
SIM interface	1.8 or 3V	1.8 or 3V	1.8 or 3V	1.8 or 3V
<b>ANTENNA</b>				
U.FL Antenna Connectors	2	3	3	3
Diversity	✓	✓	✓	✓
MIMO	✓	✓	✓	✓
GPS Bias			✓	✓
<b>LOCATION SOLUTION</b>				
	Standalone, A-GPS, gps XTRA, Glonass	Standalone, A-GPS, gps XTRA, Glonass	Standalone, A-GPS, gps XTRA, Glonass	Standalone, A-GPS, gps XTRA, Glonass
<b>CONTROL OPTIONS</b>				
	AT Commands, Gobi API	AT Commands, Gobi API	AT Commands, Gobi API	AT Commands, Gobi API
<b>TCP/IP</b>				
<b>DRIVERS</b>				
Windows <sup>®</sup> 7	✓	✓	✓	✓
Windows <sup>®</sup> 8	✓	✓	✓	✓
Windows <sup>®</sup> Mobile 6.5	✓	✓	✓	✓
Windows <sup>®</sup> CE 6.0	✓	✓	✓	✓
Android	✓	✓	✓	✓
Linux	✓	✓	✓	✓
<b>DEVICE DIMENSIONS</b>				
	51 x 30 x 2.7mm	51 x 30 x 2.7mm	51 x 30 x 2.7mm	51 x 30 x 2.7mm
<b>OPERATIONAL TEMPERATURE</b>				
	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C

# Sierra Wireless AirPrime<sup>®</sup> Embedded Wireless Modules MC Series

## Specifications

	MC7355	MC7354	MC7350	MC7350-L
<b>AIR INTERFACE</b>				
	LTE,HSPA+,GSM/GPRS/EDGE,EV-DO Rev A, 1xRTT	LTE,HSPA+,GSM/GPRS/EDGE, EV-DO Rev A, 1xRTT	LTE,EV-DO Rev A,1xRTT	LTE Only
<b>DATA SPEED</b>				
Peak Download Rate	100 Mbps	100 Mbps	100 Mbps	100 Mbps
Peak Upload Rate	50 Mbps	50 Mbps	50 Mbps	50 Mbps
<b>FREQUENCY BANDS</b>				
LTE	1900(B2), AWS(B4) 850(B5), 700 (B13), 700(B17), 1900(B25)	1900(B2), AWS(B4) 850(B5),700 (B13),700(B17),1900(B25)	AWS(B4), 700(B13) 1900PCS(B25)	AWS(B4), 700(B13)
WCDMA	2100(B1), 1900(B2), AWS(B4), 850(B5), 900(B8)	2100(B1), 1900(B2), AWS(B4),850(B5), 900(B8)		
CDMA 1xRTT/EV-DO Rev A GSM/GPRS/EDGE	800(BC0), 1900(BC1), 1700(BC10) Quad-Band	800(BC0), 1900(BC1), 1700(BC10) Quad-Band	800(BC0), 1900(BC1), 1700(BC10)	
<b>APPROVALS</b>				
Regulatory	FCC, IC, PTCRB, NCC	FCC, PTCRB, NCC	FCC, NCC	FCC, NCC
Carrier	AT&T, Sprint, Verizon	Planned: AT&T, Verizon, Sprint	Verizon, Sprint	Verizon
<b>CPU PERFORMANCES</b>				
IO voltage	1.8V	1.8V	1.8V	1.8V
<b>AUDIO</b>				
Analog audio				
Digital audio		PCM/I2S	PCM/I2S	PCM/I2S
Codec				
Echo cancellation & noise reduction		✓	✓	✓
DTMF		✓	✓	✓
<b>INTERFACES</b>				
<b>UART</b>				
USB	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed
Main Radio Disable	✓	✓	✓	✓
GNSS Disable	✓			
Vref				
<b>ADC</b>				
GPIO	4	4	4	4
Flash LED output	1	1	1	1
SIM interface	1.8 or 3V	1.8 or 3V	1.8 or 3V	1.8 or 3V
<b>ANTENNA</b>				
U.FL Antenna Connectors	3	3	3	3
Diversity	✓	✓	✓	✓
MIMO	✓	✓	✓	✓
GPS Bias		✓	✓	✓
<b>LOCATION SOLUTION</b>				
	Standalone, A-GPS, gps XTRA, Glonass	Standalone, A-GPS, gps XTRA, Glonass	Standalone, A-GPS, gps XTRA, Glonass	Standalone, A-GPS, gps XTRA, Glonass
<b>CONTROL OPTIONS</b>				
	AT Commands, Gobi API	AT Commands, Gobi API	AT Commands, Gobi API	AT Commands, Gobi API
<b>TCP/IP</b>				
<b>DRIVERS</b>				
Windows <sup>®</sup> 7	✓	✓	✓	✓
Windows <sup>®</sup> 8	✓	✓	✓	✓
Windows <sup>®</sup> Mobile 6.5	✓	✓	✓	✓
Windows <sup>®</sup> CE 6.0	✓	✓	✓	✓
Android	✓	✓	✓	✓
Linux	✓	✓	✓	✓
<b>DEVICE DIMENSIONS</b>				
	51 x 30 x 2.7mm	51 x 30 x 2.7mm	51 x 30 x 2.7mm	51 x 30 x 2.7mm
<b>OPERATIONAL TEMPERATURE</b>				
	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +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](http://www.sierrawireless.com).

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [RF Modules](#) category:*

*Click to view products by [Sierra](#) manufacturer:*

Other Similar products are found below :

[HMC-C009](#) [HMC-C011](#) [nRF24L01P-MODULE-PCB](#) [HMC-C021](#) [HMC-C024](#) [XB9XT-DPRS-721](#) [XBP9B-DMUTB022](#) [nRF24L01P-MODULE-SMA](#) [CMD-KEY2-418-CRE](#) [XM-C92-2P-UA](#) [XB9XT-DPUS-721](#) [V640-A90](#) [HMC-C583](#) [MAAM-008818-TR3000](#) [MTSMC-H5-U](#) [SIMSA868-PRO](#) [SIMSA915C-PRO](#) [SIMSA868C-PRO](#) [SIMSA433C-PRO](#) [SIMSA915-PRO](#) [XBP9B-DMUT-042](#) [HMC-C582](#) [HMC-C022](#) [XBP9B-DPST-041](#) [XBP9B-DMWT-042](#) [SM-MN-00-HF-RC](#) [HMC-C031](#) [MT-02](#) [M1002GB](#) [702-W](#) [SIMSA868C-N-PRO](#) [SIMSA433C-N-PRO](#) [SIMSA915C-N-PRO](#) [ADP-R202-00B](#) [PEPPER WIRELESS C1 USB](#) [S2-10732-Z1T61](#) [S2-107XB-Z2356-Z2352](#) [S2-10672-Z1L85](#) [S2-10686-Z1L1D](#) [S2-10688-Z1L1T](#) [S2-106BA-Z1P20](#) [S2-1060C-Z1F0A](#) [S2-106R4-Z1Q6F-Z1Q6Q](#) [S2-106R4-Z1Q6J-Z1Q6Q](#) [S2-106RB-Z1Q6V-Z1Q6Q](#) [S2-107DR-Z1Y5B](#) [SU60-2230C-PU](#) [RC-TFSK3-868](#) [NANO RFID POE](#) [650201424G](#)