



## Sierra Wireless® MC Series Embedded Modules

### SWITCH NETWORKS ANYTIME

The MC74xx module variants allow device manufacturers to store up to three different firmware variants on-board, while the MC73xx has the same functionality via host download, simplifying logistics and supply chain management.



## High-speed connectivity in a mini-card form factor

Sierra Wireless® AirPrime® MC Series supports the latest 4G and 3G networks in North America, Europe, and Asia. Optimized for low power consumption, the MC Series is ideal for today's mobile computing, networking, and industrial IoT applications.

### DEPLOY ON THE WORLD'S FASTEST LTE NETWORKS

The MC Series supports 3G and 4G global networks, including LTE Advanced, with automatic fallback to 3G or 2G networks depending on the module variant.

### ENABLE LOCATION BASED SERVICES

GNSS tracking lets you locate, monitor, and deploy location-based applications and services with module variants supporting GPS, GLONASS, Beidou, and Galileo satellite systems.

### INCORPORATE CLOUD CONNECTED SOLUTIONS

Update firmware, manage applications, and utilize product data over-the-air with AirVantage® cloud connectivity (some module variants require a Linux SDK).

### MC SERIES MODULES

MODEL	AIR INTERFACE	PEAK D/L RATE	PEAK U/L RATE
MC7455	LTE-FDD, LTE-TDD HSPA+	300 Mbps	50 Mbps
MC7430	LTE-FDD, LTE-TDD HSPA+, TD-SCDMA	300 Mbps	50 Mbps
MC73xx	LTE, HSPA+, GSM/GPRS/EDGE, EV-DO Rev A, 1xRTT (MC7354/50)	100 Mbps	50 Mbps

### MINI CARD ACCESSORY BOARD

MODEL	AIR INTERFACE	PEAK D/L RATE	PEAK U/L RATE
HL7588	LTE, HSPA+	150 Mbps	50 Mbps

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MC SERIES  
EMBEDDED MODULES

	MC7455	MC7430	HL7588 Mini Card Accessory Board
<b>Target Region</b>	Americas/EMEA	APAC	Americas
<b>4G LTE</b>			
<b>Category</b>	Cat-6	Cat-6	Cat-4
<b>Frequency Bands</b>	B1, B2, B3, B4, B5, B7, B12, B13, B20, B25, B26, B29, B30, B41	B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	B2, B4, B5, B13, B17
<b>3G</b>			
<b>1 Technology supported</b>	WCDMA	WCDMA	HSPA+
<b>Frequency Bands</b>	B1, B2, B3, B4, B5, B8	B1, B5, B6, B8, B9, B19	B2, B5
<b>2 Technology supported</b>		TD-SCDMA	
<b>Frequency Bands</b>		B39	
<b>DATA SPEED</b>			
<b>Peak Download Rate</b>	300 Mbps	300 Mbps	150 Mbps
<b>Peak Upload Rate</b>	50 Mbps	50 Mbps	50 Mbps
<b>LOCATION SERVICES</b>			
<b>Satellite Systems</b>	GPS, Galileo, Glonass, Beidou	GPS, Galileo, Glonass, Beidou	
<b>EMBEDDED SOFTWARE</b>			
<b>Secure Boot</b>			✓
<b>Pre-certified Firmware</b>			✓
<b>AUDIO CODECS</b>			
<b>PCM</b>	✓	✓	
<b>12S*</b>	✓	✓	
<b>SYSTEM DRIVERS</b>			
<b>Windows® 7</b>	✓	✓	✓
<b>Windows® 8.1</b>	✓	✓	✓
<b>Windows® 10</b>	✓	✓	✓
<b>Linux Driver: Stanard ECM</b>	✓	✓	✓
<b>Android RIL</b>	✓	✓	✓
<b>INTERFACES</b>			
<b>UART</b>			1x - 4-wire
<b>USB</b>	USB 3.0, USB 2.0 High Speed	USB 3.0, USB 2.0 High Speed	USB 2.0 High Speed
<b>GPIO</b>	4	4	5
<b>SIM Interface 1.8V/3V</b>	2	2	1
<b>CONTROL OPTIONS</b>			
<b>APIs, AT Commands</b>	✓	✓	
<b>HARDWARE</b>			
<b>Dimensions</b>	51x30x2.7mm	51x30x2.7mm	51x30x3.5 mm
<b>Antenna</b>			
<b>Connectors</b>	Main, Aux/GNSS, GNSS	Main, Aux/GNSS, GNSS	Main, Aux
<b>Diversity</b>	✓	✓	✓
<b>MIMO</b>	✓	✓	✓
<b>GNSS Bias</b>	✓	✓	
<b>TEMPERATURE RANGE</b>			
<b>Industrial Grade</b>	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
<b>APPROVALS</b>			
<b>Regulatory</b>	CE, FCC, GCF, IC, NCC, PTCRB	CE, GCF, JRF/JPA, NCC	FCC, PTCRB, IC, GCF
<b>Carrier</b>	AT&T, Bell, Rogers, Sprint, Telus, US Cellular, Verizon, Vodafone	docomo, Telstra, KDDI, Softbank	AT&T, Verizon
<b>CLOUD SERVICES</b>			
<b>Free Unlimited FOTA upgrades</b>	✓	✓	✓
<b>Device Management option</b>	✓	✓	✓
<b>Application Enablement option</b>	✓	✓	✓
<b>Connectivity Management option</b>	✓	✓	✓

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EMBEDDED MODULES

	MC7354	MC7350	MC7304
<b>Target Region</b>	Americas	USA	EMEA/Australia
<b>4G LTE</b>			
<b>Category</b>	Cat-3	Cat-3	Cat-3
<b>Frequency Bands</b>	B2, B4, B5, B13, B17, B25	B4, B13, B25	B1, B3, B7, B8, B20
<b>3G</b>			
<b>1 Technology supported</b>	WCDMA	WCDMA	WCDMA
<b>Frequency Bands</b>	B1, B2, B4, B5, B8	B1, B2, B4, B5, B8	B1, B2, B5, B8
<b>2 Technology supported</b>	EVDO	EVDO	
<b>Frequency Bands</b>	BC0, BC1, BC10	BC0, BC1, BC10	
<b>2G</b>			
<b>1 Technology supported</b>	EDGE, GSM, GPRS	CDMA	EDGE, GSM, GPRS
<b>Frequency Bands</b>	850, 900, 1800, 1900	BC0, BC1, BC10	850, 900, 1800, 1900
<b>2 Technology supported</b>	CDMA		
<b>Frequency Bands</b>	BC0, BC1, BC10		
<b>DATA SPEED</b>			
<b>Peak Download Rate</b>	100 Mbps	100 Mbps	100 Mbps
<b>Peak Upload Rate</b>	50 Mbps	50 Mbps	50 Mbps
<b>LOCATION SERVICES</b>			
<b>Satellite Systems</b>	GPS, Glonass	GPS, Glonass	GPS, Glonass
<b>AUDIO CODECS</b>			
<b>PCM</b>	✓	✓	✓
<b>12S*</b>	✓	✓	✓
<b>SYSTEM DRIVERS</b>			
<b>Windows® 7</b>	✓	✓	✓
<b>Windows® 8.1</b>	✓	✓	✓
<b>Windows® 10</b>	✓	✓	✓
<b>Windows® Mobile 6.5 and CE 6.0</b>	✓	✓	✓
<b>Linux Driver: Stanard ECM</b>	✓	✓	✓
<b>Android RIL</b>	✓	✓	✓
<b>INTERFACES</b>			
<b>USB</b>	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed
<b>GPIO</b>	4	4	4
<b>SIM Interface 1.8V/3V</b>	1	1	1
<b>CONTROL OPTIONS</b>			
<b>APIs, AT Commands</b>	✓	✓	✓
<b>HARDWARE</b>			
<b>Dimensions</b>	50x30x2.7mm	50x30x2.7mm	50x30x2.7mm
<b>Antenna</b>			
<b>Connectors</b>	Main, Aux/GNSS, GNSS	Main, Aux, GNSS	Main, Aux, GNSS
<b>Diversity</b>	✓	✓	✓
<b>MIMO</b>	✓	✓	✓
<b>GNSS Bias</b>	✓	✓	✓
<b>TEMPERATURE RANGE</b>			
<b>Industrial Grade</b>	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
<b>APPROVALS</b>			
<b>Regulatory</b>	FCC, PTCRB, NCC	FCC, NCC	CE, GCF, NCC, FCC
<b>Carrier</b>	AT&T, Bell, Rogers, Sprint, Telus, T-Mobile, Verizon	Sprint, Verizon	Telstra, Vodafone
<b>CLOUD SERVICES</b>			
<b>Free Unlimited FOTA upgrades</b>	✓	✓	✓

**About Sierra Wireless**

Sierra Wireless is building the Internet of Things with intelligent wireless solutions that empower organizations to innovate in the connected world. We offer the industry's most comprehensive portfolio of 2G, 3G, and 4G embedded modules and gateways, seamlessly integrated with our secure cloud and connectivity services. OEMs and enterprises worldwide trust our innovative solutions to get their connected products and services to market faster.

For more information, visit [www.sierrawireless.com](http://www.sierrawireless.com).

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