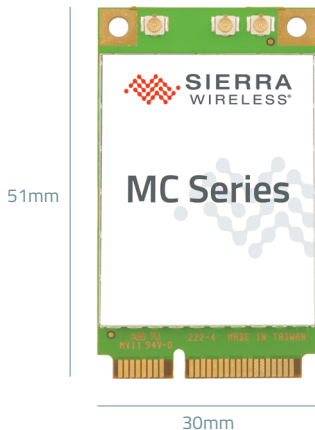




Sierra Wireless® MC Series Embedded Modules

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

Sierra Wireless
MC SERIES
EMBEDDED MODULES

	MC7455	MC7430	HL7588 Mini Card Accessory Board
TARGET REGION	Americas/EMEA	APAC	Americas
4G LTE			
Frequency Bands	B1-B5, B7, B12, B13, B20, B25, B26, B29, B30, B41	B1, B3, B5, B7, B8, B18, B19, B21, B28, B38-B41	B2, B4, B5, B13, B17
3G			
WCDMA	B1, B2, B3, B4, B5, B8	B1, B5, B6, B8, B9, B19	
HSPA+			B2, B5
TD-SCDMA		B39	
APPROVALS			
Regulatory	CE, FCC, GCF, IC, NCC, PTCRB	CE, GCF, JRF/JPA, NCC	FCC, PTCRB, IC, GCF
Carrier	AT&T, Bell, Rogers, Sprint, Telus, Verizon, Vodafone	docomo, Telstra, KDDI, Softbank	AT&T, Verizon
INTERFACES			
USB	USB 3.0, USB 2.0 High Speed	USB 3.0, USB 2.0 High Speed	USB 2.0 High Speed
Main Radio Disable	P	P	
Vref	1.8V	1.8V	
GPIO	4	4	5
Audio	PCM/12S	PCM/12S	
SIM interface: 1.8 or 3V	1	2	1
ANTENNA			
Connectors	Main, Aux/GNSS, GNSS	Main, Aux/GNSS, GNSS	Main, Aux
Diversity	✓	✓	✓
MIMO	✓	✓	✓
GNSS Bias	✓	✓	
LOCATION SOLUTION			
Satellite Systems	GPS, Glonass, Beidou, Galileo	GPS, Glonass, Beidou, Galileo	
Modes	Standalone, SUPL 2.0, XTRA 3.0	Standalone, SUPL 2.0, XTRA 3.0	
CONTROL OPTIONS			
APIs, AT Commands	✓	✓	
DRIVERS			
Windows® 7, 8.1 and 10	✓	✓	
Windows® Mobile 6.5 and CE 6.0			
Android and Linux	✓	✓	
DEVICE DIMENSIONS	51 x 30 x 2.7 mm	51 x 30 x 2.7 mm	51 x 30 x 3.5 mm
TEMPERATURE RANGE			
Industrial Grade	-40°C to +85°C	-40°C to +85°C	-40°C / + 85°C
DATA SPEED			
Peak Download Rate	300 Mbps	300 Mbps	150 Mbps
Peak Upload Rate	50 Mbps	50 Mbps	50 Mbps
AIRVANTAGE® IOT PLATFORM SERVICES			
Free Unlimited FOTA upgrades	✓	✓	✓
Connectivity Management Option	✓	✓	✓
Device Management Option	✓	✓	✓
Application Enablement Option	✓	✓	✓
SOFTWARE			
Secure Boot			✓
Pre-certified firmware			✓

Sierra Wireless
MC SERIES
EMBEDDED MODULES

	MC7354	MC7350	MC7330	MC7304
TARGET REGION	Americas	USA	Japan	EMEA/Australia
4G LTE				
Frequency Bands	B2, B4, B5, B13, B17, B25	B4, B13, B25	B1, B19, B21	B1, B3, B7, B8, B20
3G				
WCDMA	B1, B2, B4, B5, B8	B1, B2, B4, B5, B8	B1, B5, B6, B19	B1, B2, B5, B8
2G				
CDMA	BC0, BC1, BC10	BC0, BC1, BC10		
Edge/GSM/GPRS	Quad-band		Quad-band	Quad-band
APPROVALS				
Regulatory	FCC, PTCRB, NCC	FCC, NCC	JRF/JPA, NCC	CE, GCF, NCC, FCC
Carrier	AT&T, Rogers, Sprint, Telus, Verizon	Verizon, Sprint	docomo	Telstra, Vodafone
INTERFACES				
USB	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed
Main Radio Disable	P	P	P	P
Vref	1.8V	1.8V	1.8V	1.8V
GPIO	4	4	4	4
Flash LED output	1	1	1	1
Audio	PCM/I2S	PCM/I2S	PCM/I2S	PCM/I2S
SIM interface: 1.8 or 3V	1	1	1	1
ANTENNA				
Connectors	Main, Aux/GNSS, GNSS	Main, Aux, GNSS	Main, Aux, GNSS	Main, Aux, GNSS
Diversity	✓	✓	✓	✓
MIMO	✓	✓	✓	✓
GNSS Bias	✓	✓	✓	✓
LOCATION SOLUTION				
Satellite Systems	GPS, Glonass	GPS, Glonass	GPS, Glonass	GPS, Glonass
Modes	Standalone, SUPL 2.0, XTRA 2.0	Standalone, SUPL 2.0, XTRA 2.0	Standalone, SUPL 2.0, XTRA 2.0	Standalone, SUPL 2.0, XTRA 2.0
CONTROL OPTIONS				
APIs, AT Commands	✓	✓	✓	✓
DRIVERS				
Windows® 7, 8.1 and 10	✓	✓	✓	✓
Windows® Mobile 6.5 and CE 6.0	✓	✓	✓	✓
Android and Linux	✓	✓	✓	✓
DEVICE DIMENSIONS	50 x 30 x 2.7 mm	50 x 30 x 2.7 mm	50 x 30 x 2.7 mm	50 x 30 x 2.7 mm
TEMPERATURE RANGE				
Industrial Grade	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
DATA SPEED				
Peak Download Rate	100 Mbps	100 Mbps	100 Mbps	100 Mbps
Peak Upload Rate	50 Mbps	50 Mbps	50 Mbps	50 Mbps
AIRVANTAGE® IOT PLATFORM SERVICES				
Free Unlimited FOTA upgrades	✓	✓	✓	✓

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.

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