# Sierra Wireless® MC Series Embedded Modules

## 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).

### 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.

| 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 |

# Sierra Wireless
## MC SERIES
## EMBEDDED MODULES

| | MC7455 | MC7430 | MC7354 | MC7350 | MC7330 | MC7304 |
|---|---|---|---|---|---|---|
| TARGET REGION | Americas/EMEA | APAC | Americas | USA | Japan | EMEA/Australia |
| 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, B25 | B4, B13, B25 | B1, B19, B21 | B1, B3, B7, B8, B20 |
| 3G WCDMA | | | | | | |
| Frequency Bands | B1, B2, B3, B4, B5, B8 | B1, B5, B6, B8, B9, B19 | B1, B2, B4, B5, B8 | B1, B2, B4, B5, B8 | B1, B5, B6, B19 | B1, B2, B5, B8 |
| 3G TD-SCDMA | | | | | | |
| Frequency Bands | | B39 | | | | |
| 2G CDMA 1XRTT/EV-DO REV A | | | | | | |
| Frequency Bands | | | BC0, BC1, BC10 | BC0, BC1, BC10 | | |
| 2G EDGE/GSM/GPRS | | | | | | |
| Frequency Bands | | | Quad-band | | Quad-band | Quad-band |
| APPROVALS | | | | | | |
| Regulatory | CE, FCC, GCF, IC, NCC, PTCRB | CE, GCF, JRF/JPA, NCC | FCC, PTCRB, NCC | FCC, NCC | JRF/JPA, NCC | CE, GCF, NCC, FCC |
| Carrier | AT&T, Bell, Rogers, Sprint, Telus, Verizon, Vodafone | docomo, Telstra, KDDI, Softbank | AT&T, Rogers, Sprint, Telus, Verizon | Verizon, Sprint | docomo | Telstra, Vodafone |
| CPU PERFORMANCES: IO VOLTAGE | 1.8 V | 1.8V | 1.8V | 1.8V | 1.8V | 1.8 V |
| INTERFACES | | | | | | |
| USB | USB 3.0, USB 2.0 High Speed | USB 3.0, 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 | P | P | P | P | P | P |
| Vref | 1.8V | 1.8V | 1.8V | 1.8V | 1.8V | 1.8V |
| GPIO | 4 | 4 | 4 | 4 | 4 | 4 |
| Flash LED output | 1 | 1 | 1 | 1 | 1 | 1 |
| Audio | PCM/12S | PCM/I2S | PCM/I2S | PCM/I2S | PCM/I2S | PCM/I2S |
| SIM interface: 1.8 or 3V | 1 | 2 | 1 | 1 | 1 | 1 |
| ANTENNA | | | | | | |
| Connectors | Main, Aux/GNSS, GNSS | Main, Aux/GNSS, GNSS | Main, Aux/GNSS, GNSS | Main, Aux, GNSS | Main, Aux, GNSS | Main, Aux, GNSS |
| Diversity | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| MIMO | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| GNSS Bias | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| LOCATION SOLUTION | | | | | | |
| Satellite Systems | GPS, Glonass, Beidou, Galileo | GPS, Glonass, Beidou, Galileo | GPS, Glonass | GPS, Glonass | GPS, Glonass | GPS, Glonass |
| Modes | Standalone, SUPL 2.0, XTRA 3.0 | Standalone, SUPL 2.0, XTRA 3.0 | 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 | 51 x 30 x 2.7 mm | 51 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 | 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 | -40°C to +85°C | -40°C to +85°C |

**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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