



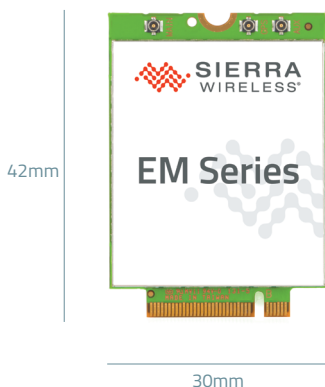
## Sierra Wireless® EM Series Embedded Modules

### WHY BASE YOUR DESIGN ON THE NEXT-GEN M.2?

- Smaller and thinner
- Enhanced pin functionality
- Future-proof form factor

### SWITCH NETWORKS ANYTIME

The EM74xx module variants allow device manufacturers to store up to three different firmware variants on-board, while other variants have the same functionality via host download, simplifying logistics and supply chain management.



## High-speed connectivity in a future-proof form factor

Sierra Wireless® AirPrime® EM Series supports the latest 4G and 3G networks in North America, Europe, and Asia. The PCI Express M.2 form factor allows easy integration into smaller and thinner devices. Optimized for low power consumption, the EM Series is ideal for today's mobile computing, networking, and industrial IoT applications.

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

The EM Series supports 4G global networks, including LTE Advanced, with automatic fallback to 3G and 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 on EM74xx module variants with AirVantage® cloud connectivity.



Sierra Wireless  
EM SERIES  
EMBEDDED MODULES

|   | EM7455  | EM7430  | EM7355                                     | EM7330               | EM7305                                |
|---|---|---|--|----------------------|---------------------------------------|
| <b>Target Region</b>                    | Americas/EMEA   | APAC  | Americas                                   | Japan                | EMEA/Australia                        |
| <b>4G LTE</b>                           |   |   |  |                      |                                       |
| <b>Category</b>                         | Cat-6   | Cat-6   | Cat-3                                      | Cat-3                | Cat-3                                 |
| <b>Frequency Bands</b>                  | 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                  | B1, B19, B21         | B1, B3, B7, B8, B20                   |
| <b>3G</b>                               |   |   |  |                      |                                       |
| <b>1 Technology supported</b>           | HSPA+, UMTS   | HSPA+, UMTS                                     | HSPA+, UMTS                                | HSPA+, UMTS          | HSPA+                                 |
| <b>Frequency Bands</b>                  | B1, B2, B3, B4, B5, B8  | B1, B5, B6, B8, B9, B19                         | B1, B2, B4, B5, B8                         | B1, B5, B6, B19      | B1, B2, B5, B8                        |
| <b>2 Technology supported</b>           |   | TD-SCDMA  |  |                      |                                       |
| <b>Frequency Bands</b>                  |   | B39   |  |                      |                                       |
| <b>2G</b>                               |   |   |  |                      |                                       |
| <b>1 Technology supported</b>           |   |   | EDGE, GSM, GPRS                            | EDGE, GSM, GPRS      | EDGE, GSM, GPRS                       |
| <b>Frequency Bands</b>                  |   |   | 850, 900, 1800, 1900                       | 850, 900, 1800, 1900 | 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>               | 300 Mbps  | 300 Mbps  | 100 Mbps                                   | 100 Mbps             | 100 Mbps                              |
| <b>Peak Upload Rate</b>                 | 50 Mbps   | 50 Mbps   | 50 Mbps                                    | 50 Mbps              | 50 Mbps                               |
| <b>LOCATION SOLUTION</b>                |   |   |  |                      |                                       |
| <b>Satellite Systems</b>                | GPS, Glonass, Beidou, Galileo                                     | GPS, Glonass, Beidou, Galileo                   | GPS, Glonass                               | GPS, Glonass         | GPS, Glonass                          |
| <b>AUDIO CODECS</b>                     |   |   |  |                      |                                       |
| <b>PCM/12S*</b>                         | ✓   | ✓   |  |                      |                                       |
| <b>USB DRIVERS</b>                      |   |   |  |                      |                                       |
| <b>Windows® 7, 8.1, 10</b>              | ✓   | ✓   | ✓  | ✓                    | ✓                                     |
| <b>Linux</b>                            | ✓   | ✓   | ✓  | ✓                    | ✓                                     |
| <b>Android RIL</b>                      | ✓   | ✓   | ✓  | ✓                    | ✓                                     |
| <b>INTERFACES</b>                       |   |   |  |                      |                                       |
| <b>USB</b>                              | 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                    |
| <b>SIM Interface 1.8V/3V</b>            | 2   | 2   | 1  | 1                    | 1                                     |
| <b>CONTROL OPTIONS</b>                  |   |   |  |                      |                                       |
| <b>APIs, AT Commands</b>                | ✓   | ✓   | ✓  | ✓                    | ✓                                     |
| <b>HARDWARE</b>                         |   |   |  |                      |                                       |
| <b>Dimensions</b>                       | 42 x 30 x 2.3 mm  | 42 x 30 x 2.3 mm                                | 43 x 30 x 2.3 mm                           | 42 x 30 x 2.3 mm     | 42 x 30 x 2.3 mm                      |
| <b>Antenna</b>                          |   |   |  |                      |                                       |
| <b>Connectors: Main, Aux/GNSS, GNSS</b> | ✓   | ✓   | ✓  | ✓                    | ✓                                     |
| <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                                  | -25°C to +60°C                             | -25°C to +60°C       | -25°C to +60°C                        |
| <b>APPROVALS</b>                        |   |   |  |                      |                                       |
| <b>Regulatory</b>                       | CE, FCC, GCF, IC, NCC, PTCRB                                      | CE, GCF, JRF/JPA, NCC                           | FCC, IC, NCC, PTCRB                        | JRF/JPA              | CE, FCC, GCF, NCC                     |
| <b>Carrier</b>                          | AT&T, Bell, Rogers, Sprint, Telus, US Cellular, Verizon, Vodafone | docomo, Telstra, KDDI, Softbank                 | AT&T, Bell, Rogers, Sprint, Telus, Verizon | docomo               | Orange, Telefonica, Telstra, Vodafone |
| <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>   | ✓   | ✓   |  |                      | ✓                                     |

\* FW support for voice is a future FW update

\*\* Exact GPS modes supported may be SKU and Operator dependent

**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).

