



## 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>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>4G LTE</b>					
<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, B25	B1, B19, B21	B1, B3, B7, B8, B20
<b>3G UMTS/HSPA+</b>					
<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>TD-SCDMA</b>					
<b>Frequency Bands</b>		B39			
<b>2G CDMA 1XRTT/EV-DO REV A</b>					
<b>Frequency Bands</b>			BC0, BC1, BC10		
<b>2G EDGE/GSM/GPRS</b>					
<b>Frequency Bands</b>			Quad-band	Quad-band	Quad-band
<b>APPROVALS</b>					
<b>Regulatory Carrier</b>	CE, FCC, GCF, IC, NCC, PTCRB AT&T, Sprint, Verizon, Vodafone	CE, GCF, JRF/JPA, NCC docomo, Telstra, Planned: KDDI, Softbank	FCC, IC, NCC, PTCRB AT&T, Rogers, Sprint, Telus, Verizon	JRF/JPA docomo	CE, FCC, GCF, NCC Orange, Telefonica, Telstra, Vodafone
<b>CPU PERFORMANCES: IO VOLTAGE</b>	1.8V	1.8V	1.8V	1.8V	1.8V
<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>Active Antenna Control</b>	4 pin	4 pin	4 pin	4 pin	4 pin
<b>Dynamic Power Control</b>	1 pin	1 pin	1 pin	1 pin	1 pin
<b>Main Radio Disable</b>	1	1	1	1	1
<b>GNSS Disable</b>	1	1	1	1	1
<b>Flash LED Output</b>	1	1	1	1	1
<b>Wake on Wan</b>	1	1	1	1	1
<b>On/Off</b>	1	1	1	1	1
<b>Reset</b>	1	1	1	1	1
<b>Audio</b>	PCM/I2S*	PCM/I2S*			
<b>SIM Interface 1.8V/3V</b>	2	2	1	1	1
<b>ANTENNA</b>					
<b>Connectors: Main, Aux/ GNSS, GNSS</b>	✓	✓	✓	✓	✓
<b>Diversity</b>	✓	✓	✓	✓	✓
<b>MIMO</b>	✓	✓	✓	✓	✓
<b>GNSS Bias</b>	✓	✓			
<b>LOCATION SOLUTION</b>					
<b>Satellite Systems</b>	GPS, Glonass, Beidou, Galileo	GPS, Glonass, Beidou, Galileo	GPS, Glonass	GPS, Glonass	GPS, Glonass
<b>Modes**</b>	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
<b>CONTROL OPTIONS</b>					
<b>APIs, AT Commands</b>	✓	✓	✓	✓	✓
<b>DRIVERS</b>					
<b>Windows® 7, 8.1 and 10, Android, Linux</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>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

\* 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).



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