



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
Target Region	Americas/EMEA	APAC	Americas	Japan	EMEA/Australia
DATA SPEED					
Peak Download Rate	300 Mbps	300 Mbps	100 Mbps	100 Mbps	100 Mbps
Peak Upload Rate	50 Mbps	50 Mbps	50 Mbps	50 Mbps	50 Mbps
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, B25	B1, B19, B21	B1, B3, B7, B8, B20
3G UMTS/HSPA+					
Frequency Bands	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
TD-SCDMA					
Frequency Bands		B39			
2G CDMA 1XRTT/EV-DO REV A					
Frequency Bands			BC0, BC1, BC10		
2G EDGE/GSM/GPRS					
Frequency Bands			Quad-band	Quad-band	Quad-band
APPROVALS					
Regulatory Carrier	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
CPU PERFORMANCES: IO VOLTAGE	1.8V	1.8V	1.8V	1.8V	1.8V
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
Active Antenna Control	4 pin	4 pin	4 pin	4 pin	4 pin
Dynamic Power Control	1 pin	1 pin	1 pin	1 pin	1 pin
Main Radio Disable	1	1	1	1	1
GNSS Disable	1	1	1	1	1
Flash LED Output	1	1	1	1	1
Wake on Wan	1	1	1	1	1
On/Off	1	1	1	1	1
Reset	1	1	1	1	1
Audio	PCM/I2S*	PCM/I2S*			
SIM Interface 1.8V/3V	2	2	1	1	1
ANTENNA					
Connectors: Main, Aux/ GNSS, GNSS	✓	✓	✓	✓	✓
Diversity	✓	✓	✓	✓	✓
MIMO	✓	✓	✓	✓	✓
GNSS Bias	✓	✓			
LOCATION SOLUTION					
Satellite Systems	GPS, Glonass, Beidou, Galileo	GPS, Glonass, Beidou, Galileo	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
CONTROL OPTIONS					
APIs, AT Commands	✓	✓	✓	✓	✓
DRIVERS					
Windows® 7, 8.1 and 10, Android, Linux	✓	✓	✓	✓	✓
DIMENSIONS	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
TEMPERATURE RANGE					
Industrial Grade	-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.

