

Sierra Wireless AirPrime[®] Embedded Wireless Modules EM Series

High-speed Connectivity for Mobile computing

Sierra Wireless AirPrime[®] EM Series embedded modules deliver high speed connectivity with a variety of advanced air interfaces, including LTE frequencies, around the world.

Their PCI Express M.2 form factor allows easy integration into smaller and thinner mobile computing devices like tablets or ultrathin laptops. The EM Series are optimized for low power consumption, to enable longer battery life. These modules support Windows[®] 7, Windows[®] 8.x, and Linux operating systems.

MULTI-OPERATOR SUPPORT

With multi-operator support on multiple LTE networks, the EM Series allow PC OEM customers to address global markets and provide end customers the flexibility to choose and change their network operators with one device.

LTE MODULES

These modules support LTE data speeds up to 100 Mbps downlink and 50 Mbps uplink and are compatible with HSPA+ and quad-band GSM/GPRS/EDGE frequencies. The EM7355 also supports CDMA/EV-DO.

- EM7355 (North America)
- EM7305 (Europe)
- EM7330 / EM7340 (Japan)
- EM7345 (Worldwide)

HSPA+ MODULES

These modules are available on HSPA+ and quad-band GSM/GPRS/EDGE frequencies and support 42 Mbps downlink and 5.76 Mbps uplink speeds.

- EM8805 (Worldwide)



KEY BENEFITS:

- New M.2 EM form factor ideal for smaller, thinner devices
- High-speed cellular connectivity with the latest technologies and multi-operator support
- Optimized for low power consumption enabling longer battery life

Essential



AirPrime[®]

Sierra Wireless AirPrime[®] Embedded Wireless Modules EM Series

	EM7355	EM8805	EM7305	EM7330	EM734x
AIR INTERFACE	LTE, HSPA+, GSM/GPRS/EDGE, CDMA	HSPA+, GSM/GPRS/EDGE	LTE, HSPA+, GSM/GPRS/EDGE	LTE, HSPA+, GSM/GPRS/EDGE	EM7345: LTE, HSPA+, GSM/GPRS/EDGE EM7340: LTE, HSPA+
DATA SPEED					
Peak Download Rate	150 Mbps	42 Mbps	150 Mbps	150 Mbps	150 Mbps
Peak Upload Rate	50 Mbps	5.76 Mbps	50 Mbps	50 Mbps	50 Mbps
FREQUENCY BANDS					
LTE	B2, B4, B5, B13, B17, B25		B1, B3, B7, B8, B20	B1, B19, B21	EM7345: B1-5, B7, B8, B13, B17-B20 EM7340: B1, B3, B8, B9, B11, B18, B19, B21, B26
UMTS/HSPA+	B1, B2, B4, B5, B8	B1, B2, B5, B8	B1, B2, B5, B8	B1, B5, B6, B19	EM7345: B1, B2, B4, B5, B8 EM7340: B1, B6, B8, B9, B11
CDMA 1xRTT/EV-DO Rev A	BC0, BC1, BC10				
GSM/GPRS/EDGE	Quad-Band	Quad-Band	Quad-Band	Quad-Band	EM7345: Quad Band
APPROVALS					
Regulatory	FCC, PTCRB, CDG, NCC	CE, GCF, NCC	CE, GCF, NCC	JATE/TELEC	EM7345: FCC, CE, GCF, PTCRB EM7340: JATE/TELEC
Carrier	AT&T, Verizon, Sprint	Telefonica	Telstra	docomo	EM7345: AT&T, Verizon, Vodafone EM7340: docomo, KDDI
CPU PERFORMANCES					
I/O voltage	1.8V	1.8V	1.8V	1.8V	1.8V
INTERFACES					
USB	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
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	✓	✓	✓	✓	✓
GNSS Disable	✓	✓	✓	✓	✓
Flash LED Output	✓	✓	✓	✓	✓
Wake on Wan	✓	✓	✓	✓	✓
On/Off	✓	✓	✓	✓	✓
Reset	✓	✓	✓	✓	✓
SIM Interface	1.8V or 3V	1.8V or 3V	1.8V or 3V	1.8V or 3V	1.8V or 3V
ANTENNA					
Connectors	Main, Aux/GNSS, GNSS	Main, Aux/GNSS	Main, Aux/GNSS, GNSS	Main, Aux/GNSS, GNSS	Main, Aux/GNSS
Diversity	✓	✓	✓	✓	✓
MIMO	✓	✓	✓	✓	✓
LOCATION SOLUTION*	Standalone GPS, A-GPS, GPS XTRA, Glonass	Standalone GPS, A-GPS, GPS XTRA, Glonass	Standalone GPS, A-GPS, GPS XTRA, Glonass	Standalone GPS, A-GPS, GPS XTRA, Glonass	Standalone GPS, A-GPS, Glonass
CONTROL OPTIONS	GOBI API	GOBI API	GOBI API	GOBI API	AT Commands
OS Support					
Windows[®] 8	✓	✓	✓	✓	✓
Windows[®] 7	✓	✓	✓	✓	✓
Android	✓	✓	✓	✓	✓
Linux	✓	✓	✓	✓	✓
DEVICE DIMENSIONS	42 x 30 x 2.3 mm	42 x 30 x 2.3 mm	42 x 30 x 2.3 mm	42 x 30 x 2.3 mm	42 x 30 x 2.3 mm
OPERATIONAL TEMPERATURE	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C	-10C to +55C

*Exact GPS modes supported may be SKU and Operator dependent

About Sierra Wireless

Sierra Wireless is the global leader in machine-to-machine (M2M) devices and cloud services, delivering intelligent wireless solutions that simplify the connected world. Our solutions are **simple**, **scalable**, and **secure**, and enable customers to get their connected products and services to market faster.

For further company and product information, please visit www.sierrawireless.com.