Sierra Wireless AirPrime[®] Embedded Wireless Modules EM Series



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 3G and 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.

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.





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

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

Essential



Sierra Wireless AirPrime® **Embedded Wireless Modules EM** Series



	EM7455*	EM7430*	EM73XX	EM8805
IR INTERFACE				
	LTE-FDD, LTE-TDD HSPA+	LTE-FDD, LTE-TDD HSPA+, TD-SCDMA		HSPA+, GSM/GPRS/EDGE
VIII COSTO			CDMA (EM7355)	
OATA SPEED Peak Download Rate	300 Mbps	300 Mbps	150 Mbps	42 Mbps
Peak Upload Rate	50 Mbps	50 Mbps	50 Mbps	5.76 Mbps
REQUENCY BANDS	30 WIDPS	30 Mibbs	оо мирра	3.70 IVIDPS
TE	B1-B5, B7, B12, B13, B17, B20, B25,	B1, B3, B5, B7, B8, B18, B19, B21,	7355: B2, B4, B5, B13, B17, B25	
	B26, B29, B30, B41	B28, B38-B41		
			EM7305: B1, B3, B7, B8, B20	
	•		EM7330: B1,B19,B21	
JMTS/HSPA+	B1, B2, B3, B4, B5, B8	B1, B5, B6, B8, B9, B19	EM7355: B1, B2, B4, B5, B8	B1, B2, B5, B8
			EM7305: B1, B2, B5, B8	
			EM7330: B1, B5, B6, B19	
D-SCDMA	•	B39		
DMA 1xRTT/EV-DO Rev A			EM7355: BC0, BC1, BC10	
SM/GPRS/EDGE			Quad-Band	Quad-Band
PPROVALS				
egulatory	Planned: FCC, IC, CE, NCC, GCF,	Planned: JRF/JPA, NCC	EM7355: FCC, IC, PTCRB, NCC	CE, GCF, NCC
	PTCRB		EMZOOF OF OOF NOO FOO	
			EM7305: CE, GCF, NCC, FCC	
	Diamadi ATRT Vision Control	Diamadi dagama T-1-t	EM7330: JRF/JPA	Talafaniaa
Carrier	Planned: AT&T, Verizon, Sprint, Vodafone, Telefonica, Orange	Planned: docomo, Telstra	EM7355: AT&T, Verizon, Sprint, Telus, Rogers	Telefonica
	rodaiono, rodioniou, orango		EM7305: Telstra, Vodafone, Telefonica,	
			Orange	
	•		EM7330: docomo	
PU PERFORMANCES				
) voltage	1.8V	1.8V	1.8V	1.8V
NTERFACES				
SB	"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
ctive Antenna Control	4 pin	4 pin	4 pin	4 pin
ynamic Power Control	1 pin	1 pin	1 pin	1 pin
lain Radio Disable	√ · · · · · · · · · · · · · · · · · · ·	√ ·	√ · · · · · · · · · · · · · · · · · · ·	✓ · · · · · · · · · · · · · · · · · · ·
NSS Disable	√	√	√	✓
lash LED Output	√	√	✓	✓
/ake on Wan	✓	√	✓	✓
n/Off	√	√	✓	✓
eset	√	√	✓	✓
udio	PCM/I2S**	PCM/I2S**		
IM Interface	2x 1.8V or 3V	2x 1.8V or 3V	1.8V or 3V	1.8V or 3V
NTENNA				
onnectors	Main, Aux/GNSS, GNSS	Main, Aux/GNSS, GNSS	Main, Aux/GNSS, GNSS	Main, Aux/GNSS
iversity	✓	✓	✓	✓
1IMO		√	✓	
NSS Bias	√	✓		
OCATION SOLUTION	000 01 0 11	000 01 0 0 11	000 01	000 01
atellite Systems lodes***	GPS, Glonass, Beidou, Galileo	GPS, Glonass, Beidou, Galileo	GPS, Glonass	GPS, Glonass
	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
ONTROL OPTIONS	ADL ATO	ADL ATO	ADL ATO	ABLATO
RIVERS	APIs, AT Commands	APIs, AT Commands	APIs, AT Commands	APIs, AT Commands
RIVERS /indows® 8	-	√	√	√
				
/indows®7 ndroid	-		√ √	✓
	· · · · · · · · · · · · · · · · · · ·	→	✓	√
inuv	Y	*	*	*
inux EVICE DIMENSIONS				
	42 x 30 x 2 3 mm	42 v 30 v 2 3 mm	43 x 30 x 2 3 mm	42 x 30 x 2 3 mm
inux EVICE DIMENSIONS PERATIONAL TEMPERATURE	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

^{*} Available in 2H 2015



Available II 2A 2013
***FW support for voice is a future FW update
***Exact GPS modes supported may be SKU and Operator dependent