



**SIERRA**  
WIRELESS®

**Embedded Solutions**  
**Start with Sierra**

**CELLULAR PORTFOLIO**

**ESSENTIAL CF3®  
MODULES**



> 2G: EDGE, GSM, GPRS  
3G: HSPA, HSPA+ with 2G fallback  
4G: LTE Cat-1, Cat-4 with 2G/3G fallback



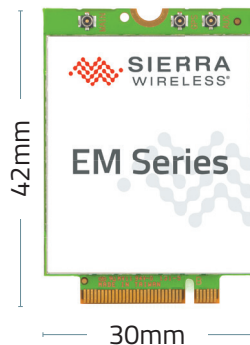
> LPWA:  
LTE-M/  
NB-IoT with  
2G fallback

**SMART CF3®  
MODULES**



> 3G: HSPA+, UMTS with 2G fallback  
4G: LTE Cat-1, Cat-3, Cat-4 with 2G/3G fallback  
LPWA: LTE-M/NB-IoT with 2G fallback

**PCI-EXPRESS  
MODULES**



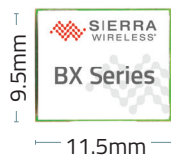
> LTE ADVANCED  
PRO  
4G: LTE Cat-3,  
Cat-6, Cat-12  
with 2G/3G  
fallback



> LTE ADVANCED  
4G: LTE Cat-3,  
Cat-6 with 3G  
fallback

**SHORT RANGE/GNSS PORTFOLIO**

**WI-FI AND  
BLUETOOTH  
MODULES**

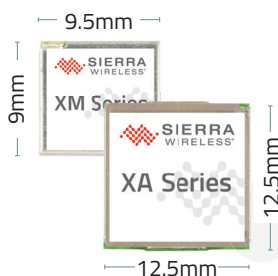


> WI-FI / BLUETOOTH  
COMBO  
802.11 b/g/n  
with Bluetooth  
Classic and BLE



> BLUETOOTH  
Dual-Mode  
Bluetooth Classic  
and BLE

**POSITIONING  
MODULES**



> GPS / GLONASS / BEIDOU / GALILEO  
Single, dual, triple constellation,  
high-performance GNSS

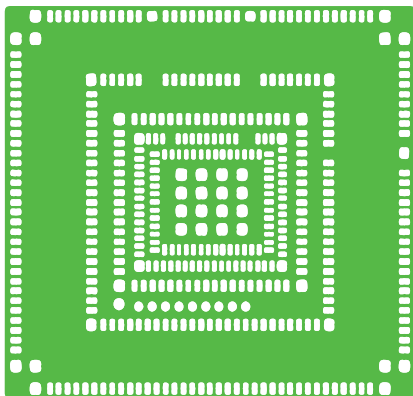
CF3® ENABLES FLEXIBILITY TO MIGRATE BETWEEN TECHNOLOGIES AND FUTURE-PROOF PRODUCT DESIGNS

COMMON ACROSS PRODUCT GENERATIONS

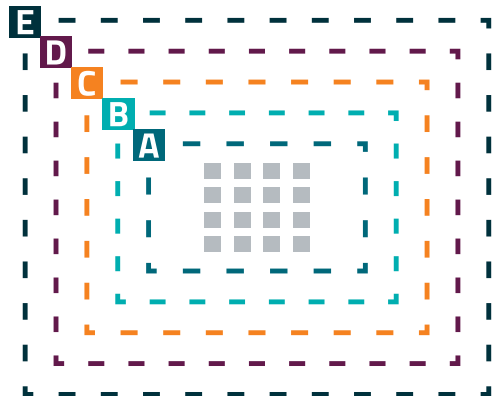
FLEXIBLE TO SUPPORT ANY WIRELESS TECHNOLOGY

FORM THAT SCALES BETWEEN MODULE FAMILIES

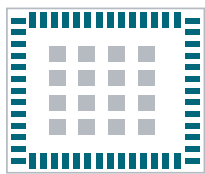
FACTOR WITH DEFINED FOOTPRINTS AND PINOUTS



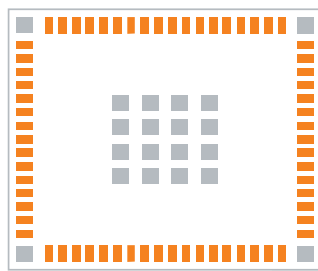
> 5 RINGS  
DEFINED IN  
THE CF3®  
STANDARD



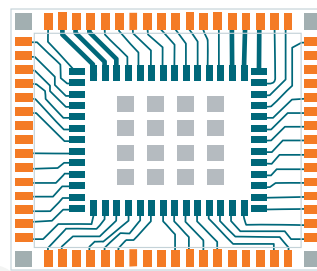
> RINGS A / C ensure fundamental electrical + functional compatibility between any CF3® module family with simple signal routing.

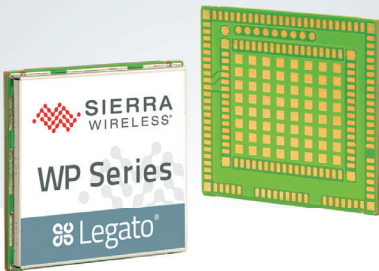


> RING A



> RING C

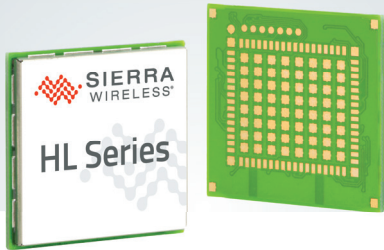




**SMART IOT MODULES WITH INTEGRATED APPLICATION PROCESSING**

AIRPRIME MODULE	REGION	BANDS	FALLBACK
<b>LTE-M (CAT-M1) / NB-IOT (CAT-NB1)</b>			
WP7700 / WP7702	Global	1-5, 8, 12, 13, 17-20, 26, 28	2G (WP7702)
<b>4G CAT-4</b>			
WP7601	Americas	4, 13	–
WP7603	Americas	2, 4, 5, 12	3G
WP7605	Japan	1, 3, 8, 11, 18, 19, 21	3G
WP7607	EMEA	1, 3, 7, 8, 20, 28	3G, 2G
WP7608	India, China	1, 3, 5, 8, 40, 41*	3G, 2G
WP7609	Australia, Brazil	1, 3, 5, 7, 8, 28	3G, 2G
WP7610	Americas	2, 4, 5, 12-14, 17, 66	3G
<b>4G CAT-3</b>			
WP7502	EMEA	1, 3, 7, 8, 20	3G, 2G
WP7504-1 / WP7504	Americas	2, 4, 5, 12, 17, 25, 26	CDMA (WP7504), 3G
<b>4G CAT-1</b>			
WP7601-1	Americas	4, 13	–
WP7603-1	Americas	2, 4, 5, 12	3G
WP7607-1	EMEA	1, 3, 7, 8, 20, 28	3G, 2G
WP7608-1	India, China	1, 3, 5, 8, 40, 41*	3G, 2G
<b>3G HSPA+, UMTS</b>			
WP8548	Global	1, 2, 5, 6, 8, 19	2G

\*B41 supported frequency range: (2535–2655 MHz)



**IOT MODULES FOR LPWA, 4G, 3G, AND 2G NETWORKS**

AIRPRIME MODULE	REGION	BANDS	FALLBACK
<b>LTE-M (CAT-M1) / NB-IOT (CAT-NB1)</b>			
HL7800 / HL7802	Global	1-5, 8-10, 12-14, 17-20, 25-28, 66	2G (HL7802)
<b>4G CAT-4</b>			
HL7518	Americas	4, 13	–
HL7528	Korea	1, 3, 5, 7	–
HL7538	Japan	1, 11, 18	–
HL7539	Japan	1, 19, 21	–
HL7548	Americas	2, 4, 5, 17	–
HL7549	Australia	3, 7, 28	–
HL7588	Americas	2, 4, 5, 13, 17	3G
<b>4G CAT-1</b>			
HL7618	Americas	4, 13	–
HL7648	Americas	2, 4, 12	–
HL7650	Australia	3, 5, 8, 28	3G
HL7688	Americas	2, 4, 5, 8, 17	3G
HL7690 / HL7692	EMEA	3, 8, 20	2G (HL7692)
<b>3G HSPA</b>			
HL8518	EMEA	1, 8	2G
HL8528 / HL8529	Americas	2, 5	2G (HL8528)
HL8548 / HL8549	Global / Brazil	1, 2, 5, 6, 8, 19	2G
<b>2G GSM, GPRS</b>			
HL6528	Global	850, 900, 1800, 1900	–



**NETWORKING MODULES FOR 4G LTE ADVANCED PRO AND LTE ADVANCED NETWORKS**

**EM SERIES**

AIRPRIME MODULE	REGION	BANDS	FALLBACK
<b>4G LTE-A PRO CAT-12</b>			
EM7565	Global	1-5, 7-9, 12, 13, 18-20, 26, 28-30, 32, 41, 42, 43, 46, 48, 66	3G
EM7511	Americas	1-5, 7-9, 12-14, 18-20, 26, 29, 30, 32, 41, 42, 43, 46, 48, 66	3G
<b>4G LTE-A CAT-6</b>			
EM7430	APAC	1, 3, 5, 7, 8, 11, 18, 19, 21, 28, 38-41	3G
EM7455	Americas, EMEA	1-5, 7, 8, 12, 13, 20, 25, 26, 29, 30, 41	3G

**MC SERIES**

AIRPRIME MODULE	REGION	BANDS	FALLBACK
<b>4G LTE-A CAT-6</b>			
MC7430	APAC	1, 3, 5, 7, 8, 11, 18, 19, 21, 28, 38-41	3G
MC7455	Americas, EMEA	1-5, 7, 8, 12, 13, 20, 25, 26, 29, 30, 41	3G



**FULLY CERTIFIED, INDUSTRIAL-GRADE WI-FI AND BLUETOOTH MODULES TO QUICKLY ADD ADVANCED CONNECTIVITY**

AIRPRIME MODULE	TECHNOLOGY	HOST	INTEGRATED ANTENNA
<b>BX SERIES - WI-FI AND BLUETOOTH COMBO MODULES</b>			
BX3100 / BX3105	802.11 b/g/n, BT 4.2 Dual-mode	Hostless	BX3105 only
<b>BC SERIES - BLUETOOTH MODULES</b>			
BC118	BT 4.1 BLE	Hostless	Yes
BC127 / BC127-EXT	BT 5 Dual-mode	Hostless	BC127 only

For more details, visit [sierrawireless.com/WifiBluetooth](http://sierrawireless.com/WifiBluetooth)



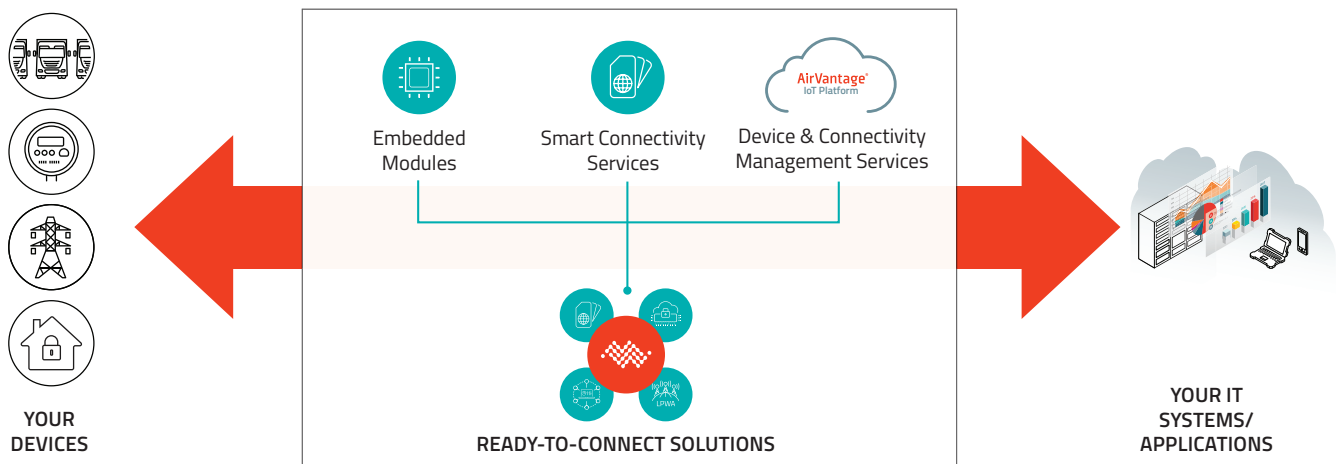
**COMPACT, LOW-POWER POSITIONING MODULES DELIVERING HIGH-PERFORMANCE GNSS TRACKING WITH QUALITY PRECISION**

AIRPRIME MODULE	SATELLITES	INTERFACES	INTEGRATED ANTENNA
<b>STANDALONE GNSS MODULES</b>			
XM1100	GPS only	UART	No
XM1110	GPS+Glonass, GPS+BeiDou, GPS+Galileo, GPS+Glonass+Galileo	UART, SPI, I2C	No
XM1210	GPS+Glonass, GPS+BeiDou, GPS+Galileo	UART, I2C, USB	No
<b>GNSS MODULES WITH INTEGRATED ANTENNA</b>			
XA1100	GPS only	UART	GPS
XA1110	GPS+Glonass, GPS+Glonass+Galileo	UART, SPI, I2C	GPS+Glonass
XA1120	GPS+BeiDou	UART, SPI, I2C	GPS+BeiDou
XA1130	GPS+Galileo	UART, SPI, I2C	GPS+Galileo
XA1210	GPS+Glonass	UART, I2C, USB	GPS+Glonass
XA1220	GPS+BeiDou	UART, I2C, USB	GPS+BeiDou

For more details, visit [sierrawireless.com/GNSS](http://sierrawireless.com/GNSS)

WHEN YOU START WITH SIERRA YOU START WITH MORE THAN A MODULE

ACCELERATE PRODUCT TIME TO MARKET WITH OUR COMPLETE DEVICE-TO-CLOUD SOLUTION consisting of embedded modules, smart global connectivity and cloud management services



Ready-to-Connect solutions simplify your logistics, thanks to the integrated eSIM and remote provisioning capability.

SMART CONNECTIVITY SERVICES

Single SIM for regional or global IoT deployment

- » **Best local and global coverage:** Smart SIM selects network with best signal
- » **Resilient IoT services:** Smart SIM auto-recovers from network outage, and connects through redundant core networks

DEVICE & CONNECTIVITY MANAGEMENT SERVICES (AirVantage IoT Platform)

Unified platform to monitor and manage embedded modules and connectivity subscriptions.

- » **Manage all your SIMs:** from Sierra and your legacy operators
- » **Manage your embedded modules** to keep them updated with the latest firmware and software through over-the-air upgrades
- » **Easy integration with your IT systems** using standard protocols, REST APIs or the cloud connectors for the large web services





**HY-LINE<sup>®</sup>**  
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