



EM8695

Migration Guide

41114814
Rev. 2

Important Notice

Information relating to this product and the application or design described herein is believed to be reliable, however such information is provided as a guide only and Semtech assumes no liability for any errors in this document, or for the application or design described herein.

Semtech reserves the right to make changes to the product or this document at any time without notice. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. Semtech warrants performance of its products to the specifications applicable at the time of sale, and all sales are made in accordance with Semtech's standard terms and conditions of sale.

SEMTECH PRODUCTS ARE NOT DESIGNED, INTENDED, AUTHORIZED OR WARRANTED TO BE SUITABLE FOR USE IN LIFE-SUPPORT APPLICATIONS, DEVICES OR SYSTEMS, OR IN NUCLEAR APPLICATIONS IN WHICH THE FAILURE COULD BE REASONABLY EXPECTED TO RESULT IN PERSONAL INJURY, LOSS OF LIFE OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. INCLUSION OF SEMTECH PRODUCTS IN SUCH APPLICATIONS IS UNDERSTOOD TO BE UNDERTAKEN SOLELY AT THE CUSTOMER'S OWN RISK. Should a customer purchase or use Semtech products for any such unauthorized application, the customer shall indemnify and hold Semtech and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs damages and attorney fees which could arise.

The Semtech name and logo are registered trademarks of the Semtech Corporation. All other trademarks and trade names mentioned may be marks and names of Semtech or their respective companies. Semtech reserves the right to make changes to, or discontinue any products described in this document without further notice. Semtech makes no warranty, representation or guarantee, express or implied, regarding the suitability of its products for any particular purpose. All rights reserved.

Wireless Communications

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. The Semtech product should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Semtech accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Semtech product, or for failure of the Semtech product to transmit or receive such data.

Safety

Do not operate the Semtech product in areas where blasting is in progress, where explosive atmospheres may be present, near medical equipment, near life support equipment, or near any equipment which may be susceptible to any form of radio interference. In such areas, the Semtech product should be powered off.

Qualcomm licenses

Semtech's cellular modules are sold subject to certain notices and restrictions regarding patent licenses from Qualcomm Incorporated. These notices and restrictions are available at www.sierrawireless.com/qualcomm-notices.

Sierra Wireless

Semtech Corporation purchased Sierra Wireless in January 2023. The Sierra Wireless brand is gradually being phased out. During the phase-out period, references to both “Semtech” and “Sierra Wireless” may appear in product documentation.

Contact Information

Sales information and technical support, including warranty and returns	Web: sierrawireless.com/company/contact-us/ Global toll-free number: 1-877-687-7795 6:00 am to 5:00 pm PST
Corporate and product information	Web: sierrawireless.com

Revision History

Revision number	Release date	Changes
1	Feb 2025	Document creation
2	Feb 2025	Updated Table 2-5 GNSS Band Support (clarified bands) Updated Table 2-6 3GPP Compliance and Data Rates (EM8695 5G Sub6 data rates) Updated Table 2-7 Pin Support Variations by EM Series Module Type (EM8695 pins 41/43) Updated Table 2-9 FOTA Methods

Contents

- Important Notice 2
- Wireless Communications..... 2
- Safety..... 2
- Qualcomm licenses 2
- Sierra Wireless 3
- Contact Information 3
- Revision History 3

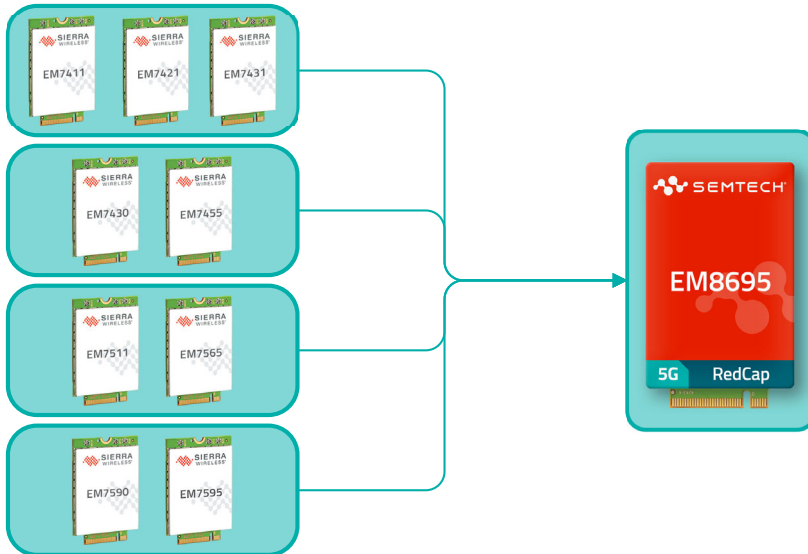
- Introduction5**

- Module Comparison6**

- References16**

1: Introduction

This document provides information for developers planning to migrate to EM8695 modules from EM74x1 (EM7411/EM7421/EM7431), EM74xx (EM7430/EM7455), EM75xx (EM7511/EM7565) or EM759x (EM7590/EM7595) modules. EM8695 modules are drop-in compatible, sharing common characteristics such as dimensions, power supply, environmental specifications, etc.



Important: *This document summarizes key differences between modules. For detailed module specifications, including module-specific current consumption and RF sensitivity measurements, refer to each device's Product Technical Specification — see [References](#) on page 16.*

2: Module Comparison

2.1 RF

2.1.1 RAT Support

Radio Access Technology (RAT) support varies by module type, as summarized in [Table 2-1](#).

Table 2-1: RAT Support

Device	5G Sub6	LTE	UMTS	TD-SCDMA	GNSS
EM7430	–	Y	Y	Y	Y
EM7455	–	Y	Y	–	Y
EM7411	–	Y	Y	–	Y
EM7421	–	Y	Y	–	Y
EM7431	–	Y	Y	–	Y
EM7511	–	Y	Y	–	Y
EM7565	–	Y	Y	–	Y
EM7590	–	Y	Y	–	Y
EM7595	–	Y	Y	–	Y
EM8695	Y	Y	–	–	Y

2.1.2 Supported RF Bands

Band support varies by module type, as summarized in [Table 2-2](#) (5G Sub6), [Table 2-3](#) (LTE), [Table 2-4](#) (UMTS/TD-SCDMA), and [Table 2-5](#) (GNSS).

Table 2-2: 5G Band Support^a

Device	5G Sub6																								
	n1	n2	n3	n5	n7	n8	n12	n13	n14	n18	n20	n25	n26	n28	n30	n38	n40	n41	n48	n66	n70	n71	n77	n78	n79
EM8695	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	T	T	T	T	F	F	F	T	T	T

a. F=FDD LTE supported; T=TDD LTE supported

Table 2-3: 4G Band Support^a

Device	LTE																																				
	B1	B2	B3	B4	B5	B7	B8	B9	B12	B13	B14	B17	B18	B19	B20	B21	B25	B26	B28	B29	B30	B32	B34	B38	B39	B40	B41	B42	B43	B46	B48	B66	B70	B71	B106		
EM7430	F	-	F	-	F	F	F	-	-	-	-	-	F	F	-	F	-	-	F	-	-	-	-	T	T	T	T	-	-	-	-	-	-	-	-	-	-
EM7455	F	F	F	F	F	F	F	-	F	F	-	-	-	-	F	-	F	F	-	F	F	-	-	-	-	-	T	-	-	-	-	-	-	-	-	-	-
EM7411	-	F	-	F	F	F	-	-	F	F	F	-	-	-	-	-	F	F	-	-	-	-	-	-	-	-	T	T	T	-	T	F	-	F	-	-	
EM7421	F	-	F	-	-	F	F	-	-	-	-	-	-	-	F	-	-	-	F	-	-	F	-	T	-	T	T	T	T	-	-	-	-	-	-	-	-
EM7431	F	-	F	-	F	-	F	-	-	-	-	-	F	F	-	-	-	-	-	-	-	-	-	-	T	-	T	T	T	-	-	-	-	-	-	-	-
EM7511	F	F	F	F	F	F	F	F	F	F	F	-	F	F	F	-	-	F	-	F	F	F	-	-	-	-	T	T	T	T	T	T	F	-	-	-	
EM7565	F	F	F	F	F	F	F	F	F	F	-	-	F	F	F	-	-	F	F	F	F	F	-	-	-	-	T	T	T	T	T	T	F	-	-	-	
EM7590	F	F	F	F	F	F	F	-	F	F	F	-	F	F	F	-	F	F	F	-	F	-	T	T	T	T	T	T	T	-	T	F	-	F	-	F ^b	
EM7595	F	F	F	F	F	F	F	-	F	F	F	-	F	F	F	-	F	F	F	-	F	-	T	T	T	T	T	T	T	-	T	F	-	F	-	F ^b	
EM8695	F	F	F	F	F	F	F	-	F	F	F	F	F	F	-	F	F	F	-	F	-	T	T	T	T	T	T	T	T	-	T	F	F	F	-	-	

a. F=FDD LTE supported; T=TDD LTE supported

b. EM7590/EM7595 B106 support is SKU-dependent

Table 2-4: 3G Band Support^a

Device	UMTS (DC-HSPA+, HSPA+, HSPA, UMTS)									TD-SCDMA
	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6	Band 8	Band 9	Band 19	800
EM7430	Y	–	–	–	Y	Y	Y	Y	Y	Y
EM7455	Y	Y	Y	Y	Y	–	Y	–	–	–
EM7411	–	Y	–	Y	Y	–	–	–	–	–
EM7421	Y	–	–	–	Y	–	Y	–	–	–
EM7431	Y	–	–	–	Y	Y	–	–	Y	–
EM7511	Y	Y	–	Y	Y	Y	Y	Y	Y	–
EM7565	Y	Y	–	Y	Y	Y	Y	Y	Y	–
EM7590	Y	Y	–	Y	Y	Y	Y	Y	Y	–
EM7595	Y	Y	–	Y	Y	Y	Y	Y	Y	–
EM8695	–	–	–	–	–	–	–	–	–	–

a. F=FDD LTE supported; T=TDD LTE supported; Y=Supported

Table 2-5: GNSS Band Support

Device	GPS	GLONASS	BeiDou	Galileo	QZSS	NavIC
EM7430	L1	L1	B1i & B1c	E1	–	–
EM7455	L1	L1	B1i & B1c	E1	–	–
EM7411	L1	L1	B1i & B1c	E1	L1	–
EM7421	L1	L1	B1i & B1c	E1	L1	–
EM7431	L1	L1	B1i & B1c	E1	L1	–
EM7511	L1	L1	B1i & B1c	E1	L1	–
EM7565	L1	L1	B1i & B1c	E1	L1	–
EM7590	L1	L1	B1i & B1c	E1	L1	–
EM7595	L1	L1	B1i & B1c	E1	L1	–
EM8695	L1 & L5	L1	B1i & B1c & B2a	E1 & E5	L1 & L5	L5

2.1.3 Supported Carrier Aggregation Combinations

Supported carrier aggregation combinations vary from module to module. For details, refer to the module-specific Product Technical Specification documents — see [References](#) on page 16.

2.1.4 Data Rates

[Table 2-7](#) summarizes each module’s compliance with specific 3GPP standards and their DL/UL data rates.

Table 2-6: 3GPP Compliance and Data Rates

	EM7430 EM7455	EM7411 EM7421 EM74x1	EM7511 EM7565	EM7590	EM759x	EM8695
3GPP Standard	<ul style="list-style-type: none"> ▪ LTE: Release 11 ▪ UMTS: Release 9 	<ul style="list-style-type: none"> ▪ LTE: Release 11 + partial Release 12/13 ▪ UMTS: Release 9 		<ul style="list-style-type: none"> ▪ LTE: Release 12 + partial Release 13 ▪ UMTS: Release 9 		<ul style="list-style-type: none"> ▪ 5G Sub6: Release 17 RedCap ▪ LTE: Release 16
5G Sub6 DL data rate	n/a	n/a	n/a	n/a	n/a	223 Mbps
5G Sub6 UL data rate	n/a	n/a	n/a	n/a	n/a	123 Mbps
LTE Category	Cat 6 DL/UL	Cat 7 DL Cat 13 UL	Cat 12 DL Cat 13 UL	Cat 13 DL/UL	Cat 12 DL Cat 13 UL	Cat 4 DL Cat 4 UL
LTE DL data rate	300 Mbps		600 Mbps	400 Mbps	600 Mbps	200 Mbps
LTE UL data rate	50 Mbps	150 Mbps				105 Mbps
Downlink MIMO	2x2, 4x2 MIMO					
UMTS Category	DC-HSPA+ (Cat 24 DL 42 Mbps/Cat 6 UL 5.76 Mbps)					n/a

2.2 Module Pinouts

EM8695 modules are pin-compatible with EM74xx/EM74x1/EM75xx/EM759x modules, except as indicated in [Table 2-7](#).

Table 2-7: Pin Support Variations by EM Series Module Type

Pin #	Group	EM7430 EM7455	EM7411 EM7421 EM7431	EM7511 EM7565	EM7590 EM7595	EM8695
20	Audio	PCM_CLK/I2S_CLK	NC	NC	NC	NC
22	Audio	PCM_DIN/I2S_DIN	NC	NC	NC	NC
24	Audio	PCM_DOUT/I2S_DOUT	NC	NC	NC	NC
28	Audio	PCM_SYNC/I2S_WS	NC	NC	NC	PLA_S2_N
29	USB3.0	USB3.0_TX-	USB3.0_TX-	USB3.0_TX-	USB3.0_TX-	NC
31	USB3.0	USB3.0_TX+	USB3.0_TX+	USB3.0_TX+	USB3.0_TX+	NC
35	USB3.0	USB3.0_RX-	USB3.0_RX-	USB3.0_RX-	USB3.0_RX-	NC
37	USB3.0	USB3.0_RX+	USB3.0_RX+	USB3.0_RX+	USB3.0_RX+	NC
41	PCIe	NC	NC	PCIE_TXM ^a	NC	Reserved ^a
43	PCIe	NC	NC	PCIE_TXP ^a	NC	Reserved ^a
47	PCIe	NC	NC	PCIE_RXM ^a	NC	Reserved ^a
49	PCIe	NC	NC	PCIE_RXP ^a	NC	Reserved ^a

Table 2-7: Pin Support Variations by EM Series Module Type (Continued)

Pin #	Group	EM7430 EM7455	EM7411 EM7421 EM7431	EM7511 EM7565	EM7590 EM7595	EM8695
50	PCIe	NC	NC	PCIE_PERST_N ^a	NC	Reserved ^a
52	PCIe	NC	NC	PCIE_CLKREQ_N ^a	NC	Reserved ^a
53	PCIe	NC	NC	PCIE_REFCLKM ^a	NC	Reserved ^a
54	PCIe	NC	NC	PCIE_PEWAKE_N ^a	NC	Reserved ^a
55	PCIe	NC	NC	PCIE_REFCLKP ^a	NC	Reserved ^a
56	Audio	I2C_DATA	NC	NC	NC	NC
58	Audio	I2C_CLK	NC	NC	NC	NC
61	Antenna Control/GPIO	ANTCTL1 (GPIO2)	ANTCTL1 (GPIO2)/TX_ON	ANTCTL1 (GPIO2)	ANTCTL1 (GPIO2)	ANT_CTRL1
63	Antenna Control/GPIO	ANTCTL2 (GPIO3)	ANTCTL2 (GPIO3)	ANTCTL2 (GPIO3)	ANTCTL2 (GPIO3)	NC
65	Antenna Control/GPIO	ANTCTL3 (GPIO4)	ANTCTL3 (GPIO4)	ANTCTL3 (GPIO4)	ANTCTL3 (GPIO4)	NC

a. Reserved pin; leave floating on host side

2.3 Firmware

2.3.1 Firmware File Formats

File formats used for module firmware (FW) images and carrier PRIs vary by module type, as summarized in [Table 2-8](#).

Table 2-8: Firmware File Formats

File Type	Filename Extension				
	EM7430 EM7455	EM7411 EM7421 EM7431	EM7511 EM7565	EM7590 EM7595	EM8695
FW image		.cwe		.fwi	.fwi
Carrier PRI		.nvu		.mcf	.mcf
Package (multiple FW+PRI)		.spkg		.sop	.sop

2.3.2 FOTA

Methods used to provide Firmware Over the Air (FOTA) vary by module type, as summarized in [Table 2-9](#).

Table 2-9: FOTA Methods

Type	FOTA Methods				
	EM7430 EM7455	EM7411 EM7421 EM7431	EM7511 EM7565	EM7590 EM7595	EM8695
FOTA	AV (AirVantage) FOTA Host-based FOTA			Carrier FOTA Host-based FOTA HTTPS FOTA	

2.3.3 USB Interface ID

EM8695 modules support the same USB interface IDs as EM74xx, EM75xx and EM75xx modules, except for the differences indicated in [Table 2-10](#).

Table 2-10: USB Interface ID Differences

Type	Interface IDs				
	EM7430 EM7455	EM7411 EM7421 EM7431	EM7511 EM7565	EM7590 EM7595	EM8695
NMEA	0x02				NMEA streaming is supported by a sample app in the Mobile Broadband Package for Linux (MBPL)
GNSS interface	n/a			0x04	0x04

2.4 Software

2.4.1 AT Commands

AT command support varies by module type:

- [Table 2-11](#) indicates EM74/EM75 commands that are not supported by the EM8695.
- [Table 2-12](#) indicates new commands that are supported by the EM8695, but are not supported by EM74/EM75 modules.
- For lists of AT commands (including standard commands (e.g., 3GPP) and Semtech-specific commands) supported by each module type, refer to:
 - [\[10\] EM74xx/MC74xx AT Command Reference \(Doc# 4117727\)](#)
 - [\[11\] EM75xx and EM/MC74x1 AT Command Reference \(Doc# 41111748\)](#)
 - [\[12\] EM759x Series AT Command Reference \(Doc# 41114426\)](#)
 - [\[13\] EM86XX AT Command Reference \(Doc# 41114815\)](#)

Table 2-11: AT Commands not supported by EM8695

Command	EM7430 EM7455	EM7411, EM7421, EM7431 EM7511, EM7565	EM759x	EM8695
!DALGAVGAGC	Y	N	N	N
!DALSNSVAL	Y	N	N	N
!DALSRTXBW	Y	N	N	N
!DALSRXBW	Y	N	N	N
!DALSTXMOD	Y	N	N	N
!DALSWAVEFORM	Y	N	N	N
!DALTXCONTROL	N	Y	Y	N
!DASBAND	Y	N	N	N
!DASCHAN	Y	N	N	N
!DASLNAGAIN	Y	N	N	N
!DASPDM	Y	N	N	N
!DASTXOFF	Y	N	N	N
!DASTXON	Y	N	N	N
!DAWGAVGAGC	Y	N	N	N
!DAWGRXAGC	Y	N	N	N
!DAWINFO	Y	N	N	N
!DAWSCHAINTCM	Y	N	N	N
!DAWSCONFIGRX	Y	N	N	N
!DAWSPARANGE	Y	N	N	N
!DAWSSCHAIN	Y	N	N	N
!DAWSTXCW	Y	N	N	N
!DAWSTXPWR	Y	N	N	N
!DAWTXCONTROL	N	Y	Y	N
!GETBAND	Y	Y	N	N
!GNSSNMEASENTENCE	N	N	Y	N
!GOBIIMPREF	Y	N	N	N
!GPSNMEACONFIG	Y	Y	Y	N
!GPSNMEASENTENCE	Y	Y	Y	N
!HOSTDEVINFO	Y	Y	N	N
!IDSCONFIGACC	Y	N	N	N

Table 2-11: AT Commands not supported by EM8695 (Continued)

Command	EM7430 EM7455	EM7411, EM7421, EM7431 EM7511, EM7565	EM759x	EM8695
!IDSCREATEACC	Y	N	N	N
!IDSSUPPORT	Y	N	N	N
!LTECA	N	Y	Y	N
!MAXPWR	Y	Y	Y	N
!INVENCRYPTIMEI	Y	Y	N	N
!NVPLMN	Y	Y	Y	N
!OSINFO	Y	Y	N	N
!PCOFFEN	Y	Y	Y	N
!SCACT	Y	Y	N	N
!SELMODE	Y	N	N	N
+CPINR	Y	Y	N	N
+WDSC	Y	Y	N	N
+WDSE	Y	Y	N	N
+WDSG	Y	Y	N	N
+WDSI	Y	Y	N	N
+WDSI (notification)	Y	Y	N	N
+WDSR	Y	Y	N	N
+WDSS	Y	Y	N	N

Table 2-12: EM8695 AT Commands not supported by EM74xx, EM74x1, EM75xx, EM759x

Command (EM8695 only)				
<i>Note: The following commands are supported on the EM8695. For each command, at least one of the other module series does not support it.</i>				
!BCRESETTYPE	!DMSESSION ^a	!GPSMTLRSETTINGS	!SKU	!USBPRODUCT
!DATXCONTROL	!EFSCOUNTER	!GPSSENDNIRESP	!STEPS	!USBVERSION
!DGSMSCONTENT	!EFSERR	!GPSSUPINITIMEOUT	!STSTATUS	!VERINFO
!DGSMSDEST	!EROPTION	!LEDTEST	!TMCONFIG	+C5GNSSAI
!DGSTATS	!FWID	!NRINFO	!TMDISCONFIG	+C5GNSSAIRDP
!DMDEBUG ^a	!GNSSAPPINFO	!RFDEVSTATUS	!TMURC	+C5GREG
!DMREAD ^a	!GNSSPERMITTEDSTATE	!SDPREF	!USBINFOEXT	+CGCONTRDP
!DMREADALL ^a	!GPSLOCREPORT	!SECINFO	!USBMANUFACTURER	

a. To be available in a future firmware release

2.5 Drivers and Tools

2.5.1 Windows Drivers and Tools

Table 2-13 summarizes the Semtech Windows drivers and tools used with each module type.

Table 2-13: Windows Drivers and Tools

Type	Drivers / Tools				
	EM7430 EM7455	EM7411 EM7421 EM7431	EM7511 EM7565	EM7590 EM7595	EM8695
MBIM driver	Microsoft Mobile Broadband Inbox Driver				Windows details to be confirmed. For additional information, please contact Semtech.
GNSS driver	Sierra Wireless GNSS Driver		GNSS UMDf 2.0 driver ^a		
Windows Service	Swiservice for host-based firmware image switching plus additional features		Swiservicelite for host-based firmware image switching		
AT command over MBIM	n/a		Yes ^b		
QMI over MBIM	Yes		Yes		
Windows application	Win VANUI		Win VANUI		
Windows logging tool	SWI Diag Util		Win Logger		
FW download tool	FDT/FDT2		FDTW		
FW logging	SwiLogPlus/dm-logger		Modem Logger		

a. Must enable the GNSS USB interface using AT!USBCOMP

b. AT over MBIM is used by MBIMAT, which is a host tool that is included in the EM759x and EM8695 Driver Packages.

2.5.2 Linux Drivers and Tools

Table 2-14 summarizes the Semtech Linux drivers and tools used with each module type.

Table 2-14: Linux Drivers and Tools

Type	Drivers / Tools				
	EM7430 EM7455	EM7411 EM7421 EM7431	EM7511 EM7565	EM7590 EM7595	EM8695
Linux kernel version	Version 4.4+				
MBIM driver	cdc_mbim				
QMI driver	qmi_wwan				
Serial driver	qcserial				
Linux lib/SDK	MBPL		libmbim or libqmi		MBPL
FW logging	Dm-logger		Fw-logger		Dm-logger
FW download tool	MBPL		FW download tool Linux (FDTL)		MBPL

2.5.3 Android Drivers

Table 2-15 presents a partial list of the Semtech Android drivers and tools used with each module type.

Table 2-15: Android Drivers

Type	Drivers / Tools				
	EM7430 EM7455	EM7411 EM7421 EM7431	EM7511 EM7565	EM7590 EM7595	EM8695
Drivers and Android RIL	MBPA				

2.6 Regulatory Compliance and Industry Certifications

Regulatory compliance and industry certifications varies by module type, as summarized in Table 2-16 and Table 2-17.

For detailed information, refer to the module-specific product specifications listed in References on page 16.

Table 2-16: Regulatory Compliance

Regulatory Compliance		EM7430	EM7455	EM7411	EM7421	EM7431	EM7511	EM7565	EM7590	EM7595	EM8695 ^a
Brazil	ANATEL	Y	–	–	–	–	–	Y	–	–	–
	OCD	Y	Y	–	Y	–	–	–	–	–	–
China	CCC	–	–	–	–	–	–	Y	–	–	–
USA	FCC	–	Y	Y	–	–	Y	Y	Y	Y	Y
Canada	ISED	–	Y	Y	–	–	Y	Y	Y	Y	Y
Japan	MIC	Y	Y	–	–	Y	–	Y	Y	Y	Y
Taiwan	NCC	Y	Y	–	Y	–	Y	Y	Y	Y	Y
South Korea	KCC	Y	–	–	Y	–	–	Y	–	–	–
EU	RED	Y ^b	Y ^b	–	Y	–	–	Y ^b	Y	Y	Y
Australia ^c		Y	Y	–	Y	–	–	Y	Y	Y	Y

a. Preliminary, subject to change.

b. Module is compliant with the RED requirements. Relevant supporting documentation will be provided to support RED certification at end-device level.

c. Module is compliant with applicable requirements from AS/CA S042.1:2018 and AS/CA S042.4:2018. Relevant supporting documentation will be provided to support RCM certification at end-device level.

Table 2-17: Industry Certifications

Certification	EM7430	EM7455	EM7411	EM7421	EM7431	EM7511	EM7565	EM7590	EM7595	EM8695 ^a
GCF	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PTCRB	–	Y	Y	–	–	Y	Y	Y	Y	Y

a. Preliminary, subject to change.

3: References

3.1 Semtech Documents

Semtech documents are available from source.sierrawireless.com, or on request (subject to license agreements or NDAs) from your Semtech representative.

Semtech Documents on the Source

The following documents are available from source.sierrawireless.com:

- [1] EM7411 Product Technical Specification (Doc# 41113694)
- [2] EM7421 Product Technical Specification (Doc# 41113693)
- [3] EM7430 Product Technical Specification (Doc# 4116235)
- [4] EM7431 Product Technical Specification (Doc# 41113759)
- [5] EM7455 Product Technical Specification (Doc# 4116236)
- [6] EM7511 Product Technical Specification (Doc# 41112028)
- [7] EM7565 Product Technical Specification (Doc# 41110788)
- [8] EM759X Product Technical Specification (Doc# 41114425)
- [9] EM8695 Product Technical Specification (Doc# 41114813)
- [10] EM74xx/MC74xx AT Command Reference (Doc# 4117727)
- [11] EM75xx and EM/MC74x1 AT Command Reference (Doc# 4111748)
- [12] EM759x Series AT Command Reference (Doc# 41114426)
- [13] EM86XX AT Command Reference (Doc# 41114815)