



Migration Guide

AirPrime MC74xx



SIERRA
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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. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless modem are used in a normal manner with a well-constructed network, the Sierra Wireless modem 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. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless modem, or for failure of the Sierra Wireless modem to transmit or receive such data.

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»» | 1: Introduction

This document is intended to provide guidance for migrating applications from using AirPrime MC73xx modules to AirPrime MC74xx modules.

The document summarizes the primary features of the MC73xx and MC74xx module variants, and differences between them.



2: Features Comparison

The following table summarizes the features available in each MC73xx and MC74xx variant.

Table 2-1: Features Comparison

Group/ Feature	7304	7305	7330	7350	7354	7355	8805	7430	7455
RF	Number of bands supported								
LTE	5	5	3	3	6	6	0	13	16
UMTS	4	4	4	0	5	5	4	6	6
GSM	4	4	4	0	4	4	4	0	0
CDMA	0	0	0	3	3	3	0	0	0
TD-CDMA	0	0	0	0	0	0	0	1	0
GNSS	Features supported								
GPS	Yes							Yes	
GLONASS	Yes							Yes	
BeiDou	No							Yes	
Galileo	No							Yes	
A-GPS	Yes							Yes	
A-GNSS	Yes							Yes	
gpsOneXtra	Yes							Yes	
Interfaces									
SIM	(1) 1.8V/3V							(2) 1.8V/3V	

Table 2-1: Features Comparison (Continued)

Group/ Feature	7304	7305	7330	7350	7354	7355	8805	7430	7455
USB	USB 2.0							USB2.0, USB3.0	
Antennas	3	3	3	3	3	3	2	3	3
Audio (digital)	(1) PCM or I2S	n/a	(1) PCM or I2S	(1) PCM or I2S	(1) PCM or I2S	n/a	n/a	(1) PCM or I2S	(1) PCM or I2S
GPIO ^a	4	0	4	4	4	0	0	4	4
Flash LED	1	1	1	1	1	1	1	1	1
I ² C	1	n/a	1	1	1	n/a	n/a	1	1
Environmental									
Operating temperature range	Class A: -30C to +70C Class B: -40C to +85C	Class A: -20C to +60C	Class A: -30C to +70C Class B: -40C to +85C			Class A: -20C to +60C		Class A: -30C to +70C Class B: -40C to +85C	
Mechanical									
Length (mm)	50.95								
Width (mm)	30								
Height (mm)	2.75								
Weight (g)	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.7	8.7

a. GPIOs are available as alternate functions on ANT_CTL0:3 and DPR pins.

3: Hardware Compatibility

This chapter describes hardware differences between MC73xx and MC74xx module variants.

These differences include:

- Supported [RF Bands](#) on page 9
- Available [RF Connectors](#) on page 11
- Supported [Temperature Range](#) on page 12
- [Power Supply](#) on page 12 (voltage range)
- Second [SIM Interface](#) on page 13 (only on MC74xx)
- [Antenna Control, DPR, and GPIOs](#) on page 14 (GPIOs as alternate functions)
- [System Reset](#) on page 14 (pin assignment)
- [PCM/I2S Audio, and I2C](#) on page 15 (supported on MC74xx)
- [GPS Disable](#) on page 15 (not supported on MC74xx)
- [USB Interface](#) on page 16 (USB 3.0 supported on MC74xx)
- [Voltage Reference](#) on page 16 (signal naming)

RF Bands

The following tables summarizes the RF bands (Table 3-1) and data rates (Table 3-2) supported by MC73xx and MC74xx module variants.

Table 3-1: Supported RF Bands

MC	LTE ^a																				UMTS									GSM				CDMA			TD ^b	GNSS							
	1	2	3	4	5	7	8	12	13	17	18	19	20	21	25	26	28	29	30	38	39	40	41	1	2	3	4	5	6	8	9	19	850	900	1800	1900	BC0	BC1	BC10	39	GPS	GLO ^c	Bei	Gal	
7304	F		F			F	F						F											Y	Y			Y		Y			Y	Y	Y	Y						Y	Y		
7305	F		F			F	F						F											Y	Y			Y		Y			Y	Y	Y	Y						Y	Y		
7330	F											F		F										Y				Y	Y			Y	Y	Y	Y	Y						Y	Y		
7350				F											F																						Y	Y	Y			Y	Y		
7354		F		F	F										F									Y	Y		Y	Y		Y			Y	Y	Y	Y	Y	Y	Y			Y	Y		
7355		F		F	F										F									Y	Y		Y	Y		Y			Y	Y	Y	Y	Y	Y	Y			Y	Y		
8805																								Y	Y			Y		Y			Y	Y	Y	Y						Y	Y		
7430	F		F		F	F	F				F	F		F			F			T	T	T	T	Y				Y	Y	Y	Y	Y								Y					
7455	F	F	F	F	F	F	F	F	F	F			F		F	F		F	F				T	Y	Y	Y	Y	Y		Y												Y	Y	Y	Y

a. F=FDD; T=TDD
 b. TD=TD-SCDMA
 c. GLO=GLONASS; Bei=BeiDou; Gal=Galileo

Table 3-2: Supported Data Rates

Module	Data rates					Notes
	LTE	UMTS	GSM	CDMA	TD-CDMA	
MC73xx	DL (Cat 3): <ul style="list-style-type: none"> • 100 Mbps (20 MHz BW) • 50 Mbps (10 MHz BW) UL (Cat 3): <ul style="list-style-type: none"> • 50 Mbps (20 MHz BW) • 25 Mbps (10 MHz BW) 	<ul style="list-style-type: none"> • DL (Cat 24): Up to 42 Mbps • UL (Cat 6): Up to 5.76 Mbps 	<ul style="list-style-type: none"> • EDGE throughput to 236 kbps 	CDMA IS-856 (1xEV-DO Release A) <ul style="list-style-type: none"> • Up to 3.1 Mbps forward channel • Up to 1.8 Mbps reverse channel CDMA IS-2000 <ul style="list-style-type: none"> • Up to 153 kbps, simultaneous forward and reverse channel Circuit-switched data bearers up to 14.4 kbps		<ul style="list-style-type: none"> • LTE: MIMO support • UMTS: Diversity support • CDMA: Diversity support
MC74xx	DL (Cat 6): <ul style="list-style-type: none"> • FDD: 300 Mbps • TDD: 222 Mbps UL (Cat 6): <ul style="list-style-type: none"> • FDD: 50 Mbps • TDD: 26 Mbps 	<ul style="list-style-type: none"> • DL (Cat 24): Up to 42 Mbps • UL (Cat 6): Up to 5.76 Mbps 	n/a	n/a	<ul style="list-style-type: none"> • DL: Up to 2.8 Mbps • UL: Up to 2.2 Mbps • Spreading rate DL: 1.28 Mcps 	<ul style="list-style-type: none"> • LTE: Downlink MIMO support (2x2, 4x2) • UMTS: Diversity support • TD-SCDMA: Diversity support

RF Connectors

All MC73xx and MC74xx have three RF connectors (Main, GNSS, and Auxiliary), except for the MC8805 (Main and Auxiliary). The Auxiliary connector is used for a combination of Diversity, MIMO, and GNSS, depending on the module type, as described in the following table.

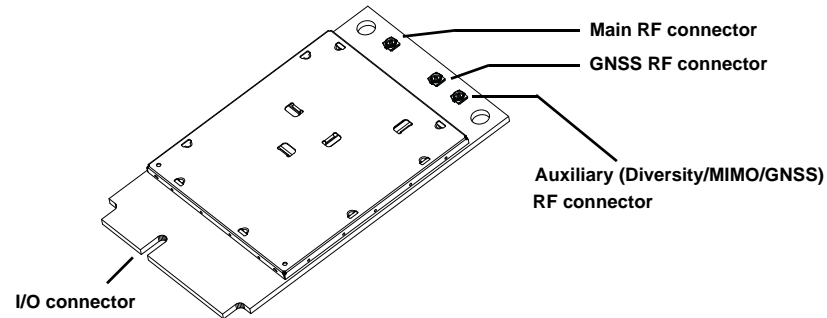


Figure 3-1: Module Connectors (Note: MC8805 has only Main and Auxiliary connectors)

Table 3-3: RF Connector Usage

Module	Num. conns	Main Connector	GNSS Connector	Auxiliary connector		
				Diversity/MIMO	Diversity/MIMO/GNSS	Diversity/GNSS
7304	3	Y	Y	Y		
7305	3	Y	Y		Y	
7330	3	Y	Y		Y	
7350	3	Y	Y	Y		
7354	3	Y	Y		Y	
7355	3	Y	Y		Y	
8805	2	Y	Y			Y
7430	3	Y	Y		Y	
7455	3	Y	Y		Y	

GNSS Antenna

Table 3-4 on page 12 describes GNSS antenna features that vary between MC73xx and MC74xx modules.

Table 3-4: GPS Antenna Connector Details

Module	GPS Bias	Voltage (Max)	Current	GNSS Switch for AUX/ Dedicated Port
7304	Yes	3.3 V	100 mA	No
7305	No	-	-	Yes
7330	Yes	3.3 V	100 mA	Yes
7350	Yes	3.3 V	100 mA	No
7354	Yes	3.3 V	100 mA	No
7355	No	-	-	Yes
7430	Yes	3.25 V	100 mA	Yes
7455	Yes	3.25 V	100 mA	Yes

Temperature Range

MC73xx and MC74xx modules have different operating temperature ranges as detailed in the following table.

Table 3-5: Operating Temperature Ranges

Module	Class A	Class B	Internal temperature recommendation
7305 7355 8805	-20C to +60C	n/a	< +85C
7304 7330 7350 7354	-30C to +70C	-40C to +85C	< +85C
74xx	-30C to +70C	-40C to +85C	< +90C

Power

Power Supply

MC73xx and MC74xx modules have different operating voltage ranges as detailed in [Table 3-6](#).

Table 3-6: Operating Voltages

Module	Minimum	Typical	Maximum
73xx	3.00 V	3.80 V	4.40 V
74xx	3.135 V	3.30 V	3.60 V

Current Consumption

Table 3-7 lists the maximum averaged call mode DC power consumption values for MC73xx and MC74xx modules.

Table 3-7: Max Averaged Call Mode DC Power Consumption

Module	Current (mA)	RAT
7304	950	LTE
7305	950	LTE
7330	950	LTE
7350	680	EV-DO
	750	LTE
7354	950	EV-DO
	950	LTE
7355	950	EV-DO
	950	LTE
7430	1120	LTE
7455	1120	LTE

Interfaces

SIM Interface

All MC73xx and MC74xx modules support a SIM interface (USIM) for 1.8V/3.0V SIMs.

MC74xx modules also support a second SIM interface (USIM2) for 1.8V/3.0V SIMs as detailed in the following table.

Table 3-8: USIM2 Interface

Interface	Pin	Signal		Function	SIM Contact	Description
		MC73xx	MC74xx			
USIM2	7	NC	USIM2_RST	SIM 2 Reset	2	Active low SIM 2 reset
	13	NC	USIM2_PWR	SIM 2 VCC supply	1	Power supply for SIM 2
	17	NC	USIM2_CLK	SIM 2 Clock	3	Serial clock for SIM 2 data
	19	NC	USIM2_DATA	SIM 2 IO pin	7	Bi-directional SIM 2 data line

Antenna Control, DPR, and GPIOs

All MC73xx and MC74xx modules provide three pins (ANT_CTRL0:2) for output signals that may be used for host designs that incorporate tunable antennas, and a pin (DPR) for dynamic power control.

The MC74xx modules and some MC73xx modules allow these pins to be used as GPIOs as well (as alternate functions).

Table 3-9: Antenna Control, DPR, and GPIO Pin Assignments

Module	Pin 3	Pin 5	Pin 44	Pin 46
7304	ANT_CTRL0/GPIO1	ANT_CTRL1/GPIO2	ANT_CTRL2/GPIO3	DPR/GPIO4
7305	ANT_CTRL0	ANT_CTRL1	ANT_CTRL2	DPR
7330	ANT_CTRL0/GPIO1	ANT_CTRL1/GPIO2	ANT_CTRL2/GPIO3	DPR/GPIO4
7350	ANT_CTRL0/GPIO1	ANT_CTRL1/GPIO2	ANT_CTRL2/GPIO3	DPR/GPIO4
7354	ANT_CTRL0/GPIO1	ANT_CTRL1/GPIO2	ANT_CTRL2/GPIO3	DPR/GPIO4
7355	ANT_CTRL0	ANT_CTRL1	ANT_CTRL2	DPR
8805	ANT_CTRL0	ANT_CTRL1	ANT_CTRL2	DPR
7430	ANT_CTRL0/GPIO1	ANT_CTRL1/GPIO2	ANT_CTRL2/GPIO3	DPR/GPIO4
7455	ANT_CTRL0/GPIO1	ANT_CTRL1/GPIO2	ANT_CTRL2/GPIO3	DPR/GPIO4

System Reset

The MC74xx modules and some MC73xx modules include a signal (SYSTEM_RESET_N) that can be set to active low to reset the device. Availability and pin location of the signal is module-dependent.

Table 3-10: System Reset Signal Availability and Timing

Module	SYSTEM_RESET_N pin		Min. pulse width (sec)
	Pin 22	Pin 33	
7304		Y	3
7305			-
7330		Y	3
7350		Y	3
7354		Y	3
7355			-
8805			-
7430	Y		2
7455	Y		2

PCM/I²S Audio, and I2C

MC74xx modules and some MC73xx modules support a four-pin PCM/I²S digital audio interface and two-pin I2C interface. These interfaces are not available on some MC73xx modules.

Table 3-11: PCM/I²S Audio Interface and I2C Interface Support

Module	I2C		PCM/I ² S			
	Pin 30	Pin 32	Pin 45	Pin 47	Pin 49	Pin 51
7304	I2C_CLK	I2C_DATA	PCM_CLK/I2S_CLK	PCM_DOUT/I2S_DOUT	PCM_DIN/I2S_DIN	PCM_SYNC/I2S_WS
7305	NC	NC	NC	NC	NC	GPS_DISABLE_N
7330	I2C_CLK	I2C_DATA	PCM_CLK/I2S_CLK	PCM_DOUT/I2S_DOUT	PCM_DIN/I2S_DIN	PCM_SYNC/I2S_WS
7350	I2C_CLK	I2C_DATA	PCM_CLK/I2S_CLK	PCM_DOUT/I2S_DOUT	PCM_DIN/I2S_DIN	PCM_SYNC/I2S_WS
7354	I2C_CLK	I2C_DATA	PCM_CLK/I2S_CLK	PCM_DOUT/I2S_DOUT	PCM_DIN/I2S_DIN	PCM_SYNC/I2S_WS
7355	NC	NC	NC	NC	NC	GPS_DISABLE_N
8805	NC	NC	NC	NC	NC	GPS_DISABLE_N
7430	I2C_CLK	I2C_DATA	PCM_CLK/I2S_CLK	PCM_DOUT/I2S_DOUT	PCM_DIN/I2S_DIN	PCM_SYNC/I2S_WS
7455	I2C_CLK	I2C_DATA	PCM_CLK/I2S_CLK	PCM_DOUT/I2S_DOUT	PCM_DIN/I2S_DIN	PCM_SYNC/I2S_WS

GPS Disable

Some MC73xx modules include a signal (GPS_DISABLE_N) that can be used to disable the GNSS radio. This signal is not available on This signal is not available on MC74xx modules and some MC73xx modules that provide PCM/I²S signals.

Table 3-12: GPS Disable Availability

Module	GPS Disable Supported?	Signal Name (Pin 51)
7304	N	PCM_WS/I2S_SYNC
7305	Y	GPS_DISABLE_N
7330	N	PCM_WS/I2S_SYNC
7350	N	PCM_WS/I2S_SYNC
7354	N	PCM_WS/I2S_SYNC
7355	Y	GPS_DISABLE_N
8805	Y	GPS_DISABLE_N
7430	N	PCM_WS/I2S_SYNC
7455	N	PCM_WS/I2S_SYNC

USB Interface

All MC73xx and MC74xx modules support a USB 2.0 interface.

MC74xx modules also support a USB 3.0 interface.

Table 3-13: USB 3.0 Interface Availability

Module	Pin 23	Pin 25	Pin 31	Pin 33	Pin 36	Pin 38
7304	NC	NC	NC	SYSTEM_RESET_N	USB_D-	USB_D+
7305	NC	NC	NC	NC	USB_D-	USB_D+
7330	NC	NC	NC	SYSTEM_RESET_N	USB_D-	USB_D+
7350	NC	NC	NC	SYSTEM_RESET_N	USB_D-	USB_D+
7354	NC	NC	NC	SYSTEM_RESET_N	USB_D-	USB_D+
7355	NC	NC	NC	NC	USB_D-	USB_D+
8805	NC	NC	NC	NC	USB_D-	USB_D+
7430	USB3.0_TX-	USB3.0_TX+	USB3.0_RX-	USB3.0_RX+	USB_D-	USB_D+
7455	USB3.0_TX-	USB3.0_TX+	USB3.0_RX-	USB3.0_RX+	USB_D-	USB_D+

Voltage Reference

MC74xx modules and some MC73xx modules provide a 1.8V reference voltage output pin (pin 11). Between these two module series, only the signal name is different.

Table 3-14: Voltage Reference Pin Assignment

Module	Pin 11
7304	VCC_MSM18_DIG
7305	NC
7330	VCC_MSM18_DIG
7350	VCC_MSM18_DIG
7354	VCC_MSM18_DIG
7355	NC
8805	NC
7430	VREF_1.8
7455	VREF_1.8

Mechanical Differences

Weight:

- MC73xx—8.6 g
- MC74xx—8.7 g

Thermal Considerations

MC74xx modules generate more heat than MC73xx modules, and may require a heatsink or air flow to meet the temperature specifications listed in [Table 3-5](#) on page 12. If the module will be operated in a hot environment, make sure to perform thorough thermal testing.

Shutdown Sequence

MC73xx and MC74xx modules must follow a specific shutdown sequence to avoid causing issues with the file system.

MC73xx:

1. Put the module into low power mode (LPM), using either of the following methods:
 - Issue AT+CFUN=0.or
 - i. Issue AT!PCOFFEN=0.
 - ii. Assert W_DISABLE_N.
2. Wait at least t_{LPM} seconds. (Refer to the module's Product Technical Specification for this value.)
3. Remove power.

MC74xx:

1. Put the module into low power mode (LPM):
 - i. Issue AT!PCOFFEN=1.
 - ii. Assert W_DISABLE_N.
2. Wait at least $t_{pwr_off_seq}$ seconds. (Refer to the module's Product Technical Specification for this value.)
3. Remove power.

4: Regulatory Compliance and Industry Certifications

The following table enumerates the regulatory compliance and industry certification of each mini card variant. For detailed information, refer to the corresponding product specification listed in section 7.1 Hardware Reference Documents.

Table 4-1: Module Regulatory Compliance and Industry Certification

Regulatory Compliance / Industry Certification	7304	7305	7330	7350	7354	7355	8805	7430	7455
CDG2				Y	Y	Y			
CE	Y	Y					Y	Y	Y
FCC				Y	Y	Y	Y	N	Y
GCF	Y	Y					Y	Y	Y
IC				Y	Y	Y		N	Y
MIC			Y					Y	Y
NCC	Y	Y	Y	Y	Y	Y		Y	Y
PTCRB					Y	Y		N	Y
Carrier-Specific Certifications									
Aeris					TBD				
AT&T					Y				Y
Bell					Y				
Rogers					Y				
Sprint				Y	Y				Planned
Telstra	Y							Planned	
Telus					Y				
Verizon				Y	Y				Y
Vodafone	TBD								

5: Pinouts

Most pin assignments are the same between the MC73xx and MC74xx modules. The following table indicates only the pins that are different.

Table 5-1: Module Pinout Variations

Pin	7304/30/50/54	7305/55 and 8805	7430/55	Details
3	ANT_CTRL0/ GPIO1	ANT_CTRL0	ANT_CTRL0/ GPIO1	Antenna Control, DPR, and GPIOs on page 14
5	ANT_CTRL1/ GPIO2	ANT_CTRL1	ANT_CTRL1/ GPIO2	Antenna Control, DPR, and GPIOs on page 14
7	NC	NC	USIM2_RST	SIM Interface on page 13
11	VCC_MSM18_DIG	NC	VREF_1.8V	Voltage Reference on page 16
13	NC	NC	USIM2_PWR	SIM Interface on page 13
17	NC	NC	USIM2_CLK	SIM Interface on page 13
19	NC	NC	USIM2_DATA	SIM Interface on page 13
22	NC	NC	SYSTEM_RESET_N	System Reset on page 14
23	NC	NC	USB3.0_TX-	USB Interface on page 16
25	NC	NC	USB3.0_TX+	USB Interface on page 16
30	I2C_CLK	NC	I2C_CLK	PCM/I2S Audio, and I2C on page 15
31	NC	NC	USB3.0_RX-	USB Interface on page 16
32	I2C_DATA	NC	I2C_DATA	PCM/I2S Audio, and I2C on page 15
33	SYSTEM_RESET_N	NC	USB3.0_RX+	System Reset on page 14, and USB Interface on page 16
44	ANT_CTRL2/ GPIO3	ANT_CTRL2	ANT_CTRL2/ GPIO3	Antenna Control, DPR, and GPIOs on page 14
45	PCM_CLK/ I2S_CLK	NC	PCM_CLK/ I2S_CLK	PCM/I2S Audio, and I2C on page 15
46	DPR/ GPIO4	DPR	DPR/ GPIO4	Antenna Control, DPR, and GPIOs on page 14
47	PCM_DOUT/ I2S_DOUT	NC	PCM_DOUT/ I2S_DOUT	PCM/I2S Audio, and I2C on page 15
49	PCM_DIN/ I2S_DIN	NC	PCM_DIN/ I2S_DIN	PCM/I2S Audio, and I2C on page 15
51	PCM_WS/ I2S_SYNC	GPS_DISABLE_N	PCM_WS/ I2S_SYNC	PCM/I2S Audio, and I2C on page 15, and GPS Disable on page 15

6: References

Module-specific Product Technical Specifications and AT Command Reference documents are available at source.sierrawireless.com.