

Host-based short range radio modules

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	Multiradio (Wi-Fi and Bluetooth)										
	MAYA-W160	MAYA-W161	MAYA-W166	M2-MAYA-W161	MAYA-W260	MAYA-W261	MAYA-W266	MAYA-W271	MAYA-W276	M2-MAYA-W271	
Grade											
Automotive	•	•	•		•	•	•	•	•		
Professional				•						•	
Standard											
Physical											
Image											
Size [mm]	10.4 x 14.3 × 1.9			22 x 30 x 2.8		10.4 x 14.3 × 1.9				22 x 30 x 2.8	
Operating temperature [°C]	-40 to +85			-40 to +85		-40 to +85				-40 to +85	
Radio											
Chip inside	NXP IW416			NXP IW416		NXP IW611		NXP IW612		NXP IW612	
Bluetooth qualification version	5.2			5.2		5.3				5.3	
Bluetooth Low Energy	•	•	•	•	•	•	•	•	•	•	
Bluetooth BR/EDR	•	•	•	•	•	•	•	•	•	•	
Bluetooth output power [dBm] *	10	10	10	10	<20	<20	<20	<20	<20	<20	
Wi-Fi output power [dBm] *	18	18	18	18	18	18	18	18	18	18	
Wi-Fi IEEE 802.11 standards	a/b/g/n	a/b/g/n	a/b/g/n	a/b/g/n	a/b/g/n/ac/ax				a/b/g/n/ac/ax		
Wi-Fi band [GHz]	2.4 and 5	2.4 and 5	2.4 and 5	2.4 and 5	2.4 and 5				2.4 and 5		
Maximum Wi-Fi channel width [MHz]	40	40	40	40	80	80	80	80	80	80	
LTE filter	o	o	o	o	o	o	o	o	o	o	
Antenna type (see footnotes)	2 U.FL	2 pin	pcb (pin)	2 U.FL	2 U.FL	2 pin	pcb/pin	2 pin	pcb/pin	2 U.FL	
Thread								•	•	•	
OS support											
Android / Linux drivers	•	•	•	•	•	•	•	•	•	•	
RTOS (via NXP i.MX RT MCUs)	•	•	•	•	•	•	•	•	•	•	
Interfaces											
High-speed UART [®]	1	1	1	1	1	1	1	1	1	1	
SDIO [version] ^W	v3	v3	v3	v3	v3	v3	v3	v3	v3	v3	
PCM/I2S (Bluetooth audio)	1	1	1	1	1	1	1	1	1	1	
SPI host interface for Thread					1	1	1	1	1	1	
Features											
Bluetooth LE audio					•	•	•	•	•	•	
Bluetooth long range	•	•	•	•	•	•	•	•	•	•	
Micro Access Point [max connects]	8	8	8	8	16	16	16	16	16	16	
AES hardware support	•	•	•	•	•	•	•	•	•	•	
Wi-Fi direct	•	•	•	•	•	•	•	•	•	•	
Wi-Fi 802.11mc					•	•	•	•	•	•	
WPA3	•	•	•	•	•	•	•	•	•	•	
Factory-assigned MAC address in OTP	•	•	•	•	•	•	•	•	•	•	
Factory calibrated RF in OTP	•	•	•	•	•	•	•	•	•	•	
Simultaneous STA/AP roles	•	•	•	•	•	•	•	•	•	•	
Secure boot					•	•	•	•	•	•	

B = Bluetooth only
W = Wi-Fi only

pin = antenna pin

pcb = internal PCB antenna

U.FL = U.FL connector(s) for external antenna

o = On request

* = EIRP for embedded antennas; conducted for pins and connectors

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	Multiradio (Wi-Fi and Bluetooth)								
	MAYA-W331	MAYA-W333	MAYA-W336	MAYA-W361	MAYA-W363	MAYA-W366	MAYA-W381	MAYA-W383	MAYA-W386
Grade									
Automotive									
Professional	•	•	•	•	•	•	•	•	•
Standard									
Physical									



Size [mm]	10.4 x 14.3 x 1.9								
Operating temperature [°C]	-40 to +85								
Radio									
Chip inside	IFX 55512			IFX 55513			NXP IW611		
Bluetooth qualification version	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Bluetooth Low Energy	•	•	•	•	•	•	•	•	•
Bluetooth BR/EDR	•	•	•	•	•	•	•	•	•
Bluetooth output power [dBm] *	<20	<20	<20	<20	<20	<20	<20	<20	<20
Wi-Fi output power [dBm] *	18	18	18	18	18	18	18	18	18
Wi-Fi IEEE 802.11 standards	a/b/g/n/ac/ax			a/b/g/n/ac/ax			a/b/g/n/ac/ax		
Wi-Fi band [GHz]	2.4			2.4 and 5			2.4, 5, and 6		
Maximum Wi-Fi channel width [MHz]	20	20	20	20	20	20	20	20	20
LTE filter	o	o	o	o	o	o	o	o	o
Antenna type (see footnotes)	2 pin	1 pin	pcb	2 pin	1 pin	pcb	2 pin	1 pin	pcb
Thread									
OS support									
Android / Linux drivers	•	•	•	•	•	•	•	•	•
RTOS (via NXP i.MX RT MCUs)	•	•	•	•	•	•	•	•	•
Interfaces									
High-speed UART [®]	1	1	1	1	1	1	1	1	1
SDIO [version] ^W	v3	v3	v3	v3	v3	v3	v3	v3	v3
PCM/I2S (Bluetooth audio)	1	1	1	1	1	1	1	1	1
SPI host interface for Thread									
Features									
Bluetooth LE audio	•	•	•	•	•	•	•	•	•
Bluetooth long range	•	•	•	•	•	•	•	•	•
Micro Access Point [max connects]	16	16	16	16	16	16	16	16	16
AES hardware support	•	•	•	•	•	•	•	•	•
Wi-Fi direct	•	•	•	•	•	•	•	•	•
Wi-Fi 802.11mc									
WPA3	•	•	•	•	•	•	•	•	•
Factory-assigned MAC address in OTP	•	•	•	•	•	•	•	•	•
Factory calibrated RF in OTP	•	•	•	•	•	•	•	•	•
Simultaneous STA/AP roles									
Secure boot	•	•	•	•	•	•	•	•	•

B = Bluetooth only pin = antenna pin pcb = internal PCB antenna o = On request

W = Wi-Fi only

* = EIRP for embedded antennas; conducted for pins and connectors



	Multiradio (Wi-Fi and Bluetooth)						
	JODY-W682	JODY-W683	JODY-W562	JODY-W354	JODY-W374	JODY-W377	M2-JODY-W377
Grade							
Automotive	•	•	•	•	•	•	
Professional				•	•	•	
Standard							•
Physical							
Image							
Size [mm]	13.8 x 19.8 x 2.5						22 x 30 x 4.2
Operating temperature [°C]	-40 to +105		-40 to +85/+105	-40 to +85			
Radio							
Chip inside	NXP AW693	NXP AW693	NXP AW611	NXP AW690	NXP 88Q9098/ NXP 88W9098		NXP 88Q9098
Bluetooth qualification version	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Bluetooth Low Energy	•	•	•	•	•	•	•
Bluetooth BR/EDR	•	•	•	•	•	•	•
Bluetooth output power [dBm] *	10	10	12	10	10	10	10
Wi-Fi output power [dBm] *	19	19	18	19	19	19	19
Wi-Fi IEEE 802.11 standards	a/b/g/n/ac/ax	a/b/g/n/ac/ax	a/b/g/n/ac/ax	a/b/g/n/ac/ax			a/b/g/n/ac/ax
Wi-Fi band [GHz]	2.4, 5, and 6	2.4, 5, and 6	2.4 and 5	2.4 and 5			2.4 and 5
Maximum Wi-Fi channel width [MHz]	80	80	80	80	80	80	80
LTE filter	o	o	o	o	o	o	
Antenna type (see footnotes)	2p	3p	2p	2p	2p	3p	3 U.FL
OS support							
Android / Linux drivers	•	•	•	•	•	•	•
QNX (via third party)	•	•	•	•	•	•	•
Interfaces							
High-speed UART ^B	1	1	1	1	1	1	1
PCIe ^W	1	1		1	1	1	1
SDIO [version] ^W			v3	v3	v3	v3	v3
PCM/I2S (Bluetooth audio)	1	1	1	1	1	1	1
Features							
Secure boot	•	•					
Bluetooth LE audio	•	•	•				
Bluetooth long range	•	•	•	•	•	•	•
Micro Access Point [max connects]	64	64	16	64	64	64	64
AES hardware support	•	•	•	•	•	•	•
Wi-Fi direct	•	•	•	•	•	•	•
Wi-Fi 802.11mc	•	•	•	•	•	•	•
WPA3	•	•	•	•	•	•	•
Factory-assigned MAC address in OTP	•	•	•	•	•	•	•
Factory calibrated RF in OTP	•	•	•	•	•	•	•
Simultaneous STA/AP roles	•	•	•	•	•	•	•
2x2 MIMO	•	•		•	•	•	•
Dual MAC	•	•		•	•	•	•

B = Bluetooth only
W = Wi-Fi only

2p = 2 antenna pins, one each for Bluetooth and Wi-Fi
3p = 3 pins, 2 for Wi-Fi and 1 for Bluetooth antenna

U.FL = U.FL connector(s) for external antenna

o = On request

* = EIRP for embedded antennas; conducted for pins and connectors

Host-based short range radio modules

S

	Multiradio (Wi-Fi and Bluetooth)					Wi-Fi		
	JODY-W263	M2-JODY-W263	JODY-W163	JODY-W164	JODY-W167	LILY-W131	LILY-W132	LILY-W133
Grade								
Automotive	•		•	•	•	•	•	•
Professional	•							
Standard		•						
Physical								
Image	     							
Size [mm]	13.8 x 19.8 x 2.5	22 x 30 x 4.2	13.8 x 19.8 x 2.5			10.0 x 14.0 x 2.2 / 3.8		
Operating temperature [°C]	-40 to +105	-40 to +85				-40 to +85		
Radio								
Chip inside	NXP 88W8987	NXP 88W8987	CYW 88359/CYW 89359			NXP 88W8801		
Bluetooth qualification version	5.2	5.2	5.0 ^{W/O}					
Bluetooth Low Energy	•	•	•	•	•			
Bluetooth BR/EDR	•	•	•	•	•			
Bluetooth output power [dBm] *	10	10	10	10	10			
Wi-Fi output power [dBm] *	18	18	18	18	18	19	15	15
Wi-Fi IEEE 802.11 standards	a/b/g/n/ac	a/b/g/n/ac	a/b/g/n/ac			b/g/n	b/g/n	b/g/n
Wi-Fi band [GHz]	2.4 and 5	2.4 and 5	2.4 and 5			2.4	2.4	2.4
Maximum Wi-Fi channel width [MHz]	80	80	80			20	20	20
LTE filter	o		o	o	o	•		
Antenna type (see footnotes)	2p	2 U.FL	2p	2p	3p	pin	metal	metal
OS support								
Android / Linux drivers	•	•	•	•	•	•	•	•
RTOS (via NXP i.MX RT MCUs)	•	•				•	•	•
QNX (via third party)	•	•	•	•	•			
Interfaces								
High-speed UART ^B	1	1	1	1	1			
PCIe ^W					1	1		
SDIO [version] ^W	v3	v3	v3			v2	v2	v2
PCM/I2S (Bluetooth audio)	1	1	1	1	1			
USB 2.0						1	1	1
Features								
Bluetooth long range								
Micro Access Point [max connects]	8	8	10	10	10	8	8	8
AES hardware support	•	•	•	•	•	•	•	•
Wi-Fi direct	•	•	•	•	•	•	•	•
Wi-Fi 802.11mc								
WPA3	•	•				•	•	•
Factory-assigned MAC address in OTP	•	•	•	•	•	•	•	•
Factory calibrated RF in OTP	•	•	•	•	•	•	•	•
Simultaneous STA/AP roles	•	•	•	•	•	•	•	•
2x2 MIMO			•	•	•			
Dual MAC			•	•				

B = Bluetooth only
W = Wi-Fi only

2p = 2 antenna pins, one each for Bluetooth and Wi-Fi
3p = 3 pins, 2 for Wi-Fi and 1 for Bluetooth antenna
U.FL = U.FL connector(s) for external antenna

pin = pin for external antenna
metal = Metal PIFA antenna
W/O = without optional features

o = On request

* = EIRP for embedded antennas; conducted for pins and connectors

