

Smart Energy: Advanced Metering Infrastructure (AMI) and ZigBee[®] Front End Module Selection Guide

Smart Energy Module Summary 2.4GHz to 2.5GHz

Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	P _{OUT} (dBm)	Antenna Output	RX/ TX Interface	LNA	Transceiver/SOC	Part Number
2400	2500	20	DP2T	Bi-directional 100 Ohm Balun	Yes	EM357, CC24XX, CC25XX, AT86RF231, MC1323x	RF6555
2400	2500	23	DP2T	Bi-directional 100 Ohm Balun	Yes	EM357, CC24XX, CC25XX, AT86RF231, MC1323x	RFFM6201
2400	2500	22	SP2T	200 Ohm Baluns Rx/Tx	No	EM250	RF6515
2400	2500	22	DP2T	200 Ohm Baluns Rx/Tx	Yes	EM357, STM32W	RF6525
2400	2500	22	DP2T	Two 200 Ohms Baluns	Yes	EM250, MC1321x	RF6535
2400	2500	22	DP2T	Bi-directional 50 Ohm line (SP2T)	No	MC1322x	RF6545
2400	2500	22	DP2T	Bi-directional 50 Ohm line (SP2T)	Yes	ATmega128RFA1, MC1322x, AT86RF231	RF6575
2400	2500	23	SP3T	50 Ohm Rx, 50 Ohm Tx	Yes	AT86RF231	RF5745
2400	2500	27	DP2T	Bi-directional 100 Ohm Balun	Yes	EM357, CC24XX, CC25XX, AT86RF231	RF6505

Smart Energy Module Summary 500MHz to 1GHz

Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	P _{OUT} (dBm)	Antenna Output	RX/ TX Interface	LNA	Transceiver/SOC	Part Number
868 and 900	930	22	DP2T	50 Ohm Rx, 50 Ohm Tx	No	ADF7020, Si4432	RF6539
868 and 900	930	26	DP2T	50 Ohm Rx, 50 Ohm Tx	No	ADF7020, Si4432	RF6599
868 and 900	930	26.5	DP2T	Bi-directional 50 Ohm line (SP2T)	Yes	CC1101, AT86RF212	RF6519
868 and 900	930	27	DP2T	50 Ohm Rx, 50 Ohm Tx	Yes	CC1101, AT86RF212	RF6549
868 and 900	930	28	SP2T	Bi-directional 50 Ohm line (SP2T)	Yes	CC1101, SX1211, SX1231	RF6559
868 and 900	930	30	SP3T	Bi-directional 50 Ohm line (SP2T)	Yes	CC1101, SX1211, SX1231	RF6509
868 and 900	930	30	SP2T	100 Ohm Baluns/50 Ohm Rx, 50 Ohm Tx	No	Si1000, Si446x, CC112x	RF6569
868 and 900	930	30	SP3T	50 Ohm Rx, 50 Ohm Tx with Tx Bypass (SP2T)	Yes	CC1101, AT86RF212, CC112x	RFFM6903
868 and 900	930	30	DP2T	50 Ohm Rx, 50 Ohm Tx	Yes	ADF7020, Si4432, CC1101	RFFM6901
868 and 900	930	31.5	DP2T	50 Ohm Rx, 50 Ohm Tx	Yes	ADF7020, Si4432, CC1101	RR3858
868 and 900	930	31.5	DP2T	50 Ohm Rx, 50 Ohm Tx	Yes	ADF7020, Si4432, CC1101	RFFM6904

Smart Energy Module Summary <500MHz

Freq Range (Min) (MHz)	Freq Range (Max) (MHz)	P _{OUT} (dBm)	Antenna Output	RX/ TX Interface	LNA	Transceiver/SOC	Part Number
168	171	27.5	SP2T	50 Ohm Rx, 50 Ohm Tx	No	ADF7020, Si446x, CC112x	RFFM6500
430	470	30	SP2T	50 Ohm Rx, 50 Ohm Tx	No	ADF7020, Si4432	RF6504
470	510	26	SP2T	50 Ohm Rx, 50 Ohm Tx	No	Si4432	RF6514
430	470	30	SP2T	50 Ohm Rx, 50 Ohm Tx	No	ADF7020, Si4432	RFFM6401
405	470	30	SP3T	50 Ohm Rx, 50 Ohm Tx with Tx Bypass (SP2T)	Yes	Oc1101, AT86RF212, CC112x	RFFM6403

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