

### Selected Electrical Specification

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Supply Voltage	$V_{DD}$		1.8	3.3	3.6	V
Frequency Range	$F_{RX}$		283	—	350	MHz
			425	—	525	MHz
			850	—	960	MHz
Current Consumption	$I_{Shutdown}$		—	30	—	nA
	$I_{Standby}$		—	50	—	nA
	$I_{RX}$		—	10	—	mA
Rx Sensitivity	$P_{RX\_2}$	BER < 0.1%, 2.4 kbps, GFSK, BT = 0.5, $\Delta F$ = 25kHz, 114 kHz Rx BW	—	-116	—	dBm
	$P_{RX\_OOK}$	BER < 0.1%, 1 kbps, 185 kHz Rx BW, OOK, PN15 data	—	-113	—	dBm
Selectivity <sup>2</sup>	$C/I_{1-CH}$	$\pm 1$ Channel Offset	—	-56	—	dB
	$C/I_{2-CH}$	$\pm 2$ Channel Offset	—	-59	—	dB
Blocking <sup>2</sup>	$200k_{BLOCK}$	200 kHz–1 MHz Offset	—	-58	—	dB
	$1M_{BLOCK}$	1 MHz Offset	—	-61	—	dB
	$8M_{BLOCK}$	8 MHz Offset	—	-79	—	dB
Image Rejection	$Im_{REJ}$	Rejection at the image frequency IF = 468 kHz	—	-35	—	dB
Data Rate	$DR_{FSK}$	(G)FSK Modulation	1.0	—	500	kbps
	$DR_{OOK}$	OOK Modulation	0.5	—	120	kbps

**Notes:**

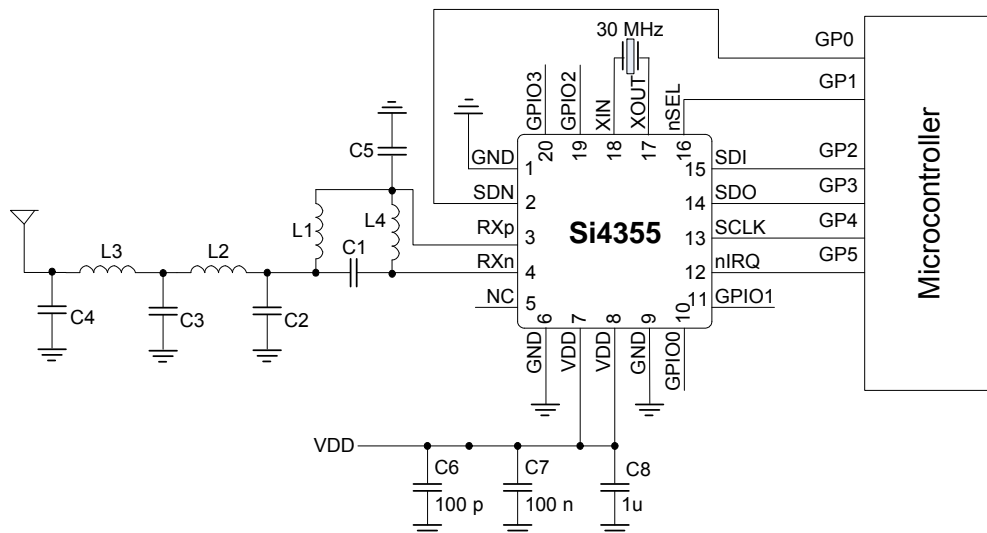
- Test Conditions: 3.3 VDC  $V_{DD}$ , 25 °C, external reference signal ( $X_{IN}$ ) = 1.0 V<sub>PP</sub> at 30MHz, centered around 0.8 VDC. Sensitivity measured at 434 MHz.
- Desired reference signal 3 dB above sensitivity, BER < 0.1%, Interferer is CW and desired modulation with 2.4 kbps,  $\Delta F$  = 30 kHz, GFSK with BT = 0.5, Rx BW = 114 kHz, 100 kHz channel spacing.

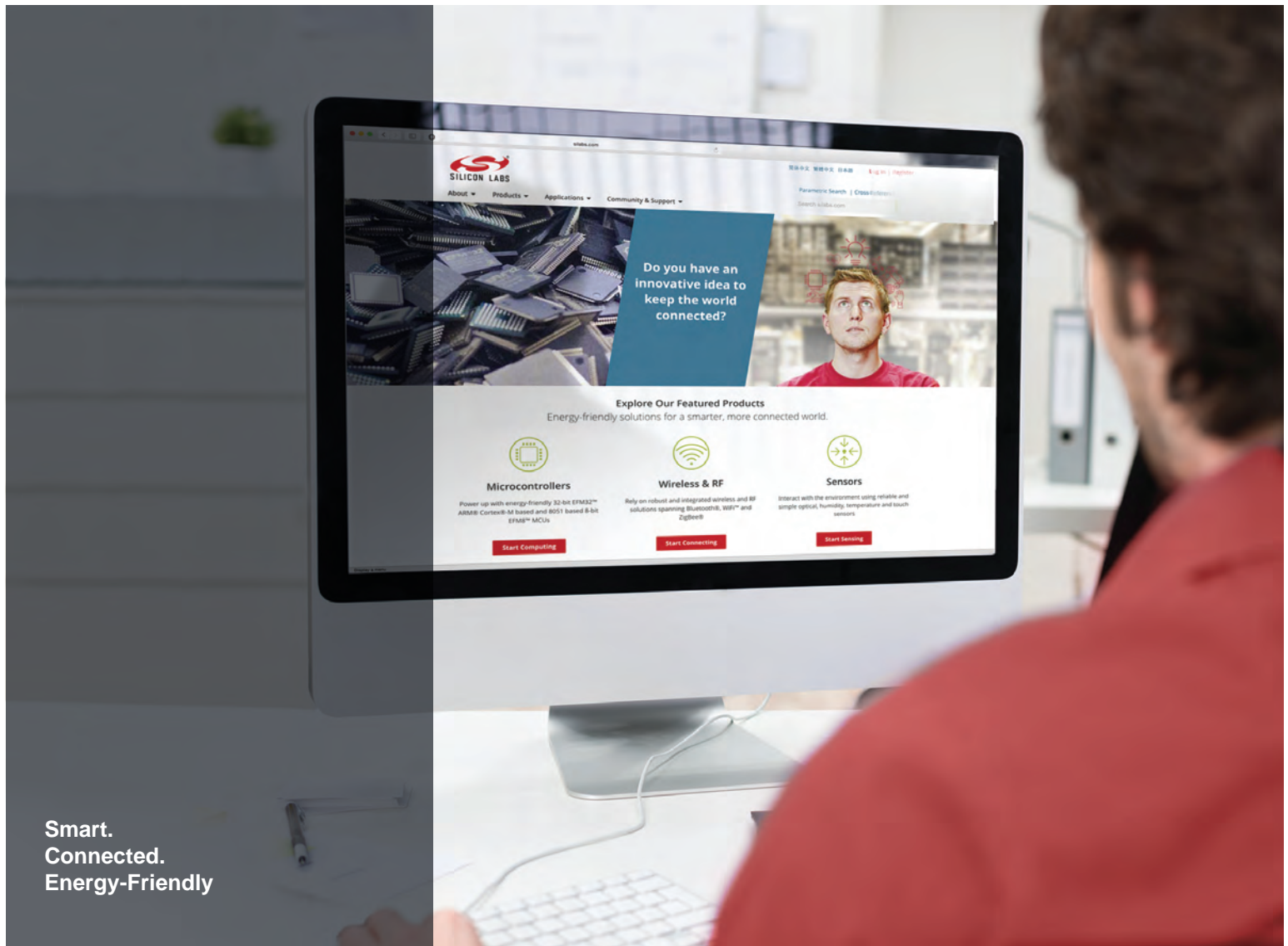
### Ordering Guide

Part Number*	Description	Package Type	Operating Temperature
Si4355-B1A-FM	EZRadio Transceiver	3x3 QFN-20 Pb-free	-40 to 85 °C

\*Note: Add an "R" at the end of the device part number to denote tape and reel option.

### Application Circuit





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