

products

PRISM[®] 3

Integrated Radio Chip Set for 2.4GHz DSSS WLANs

PRISM 3 provides an IEEE 802.11b (Wi-Fi) based wireless LAN platform optimized for consumer applications. The innovative Direct Down Conversion architecture significantly reduces WLAN product cost. Decreasing the WLAN components to a 2-chip design, Intersil enables partners to create products in smaller form factors for existing and emerging markets. OEM developers can target consumer market applications using the embedded PCMCIA, Compact Flash and USB interface. The world-class

PRISM 3 front-end ISL3684 chip utilizes Direct Down Conversion technology, eliminating the need for intermediate-frequency mixer(s), amplifier and filter components. The ISL3871 is a highly integrated Baseband/MAC which complements the ISL3684 front end. The result is a significant reduction in component count, enabling new WLAN products for emerging consumer markets. The PRISM 3 development kit will support popular design interfaces including PCMCIA and USB.

Intersil components used on the PRISM 3 builders kit:

WLAN Chips

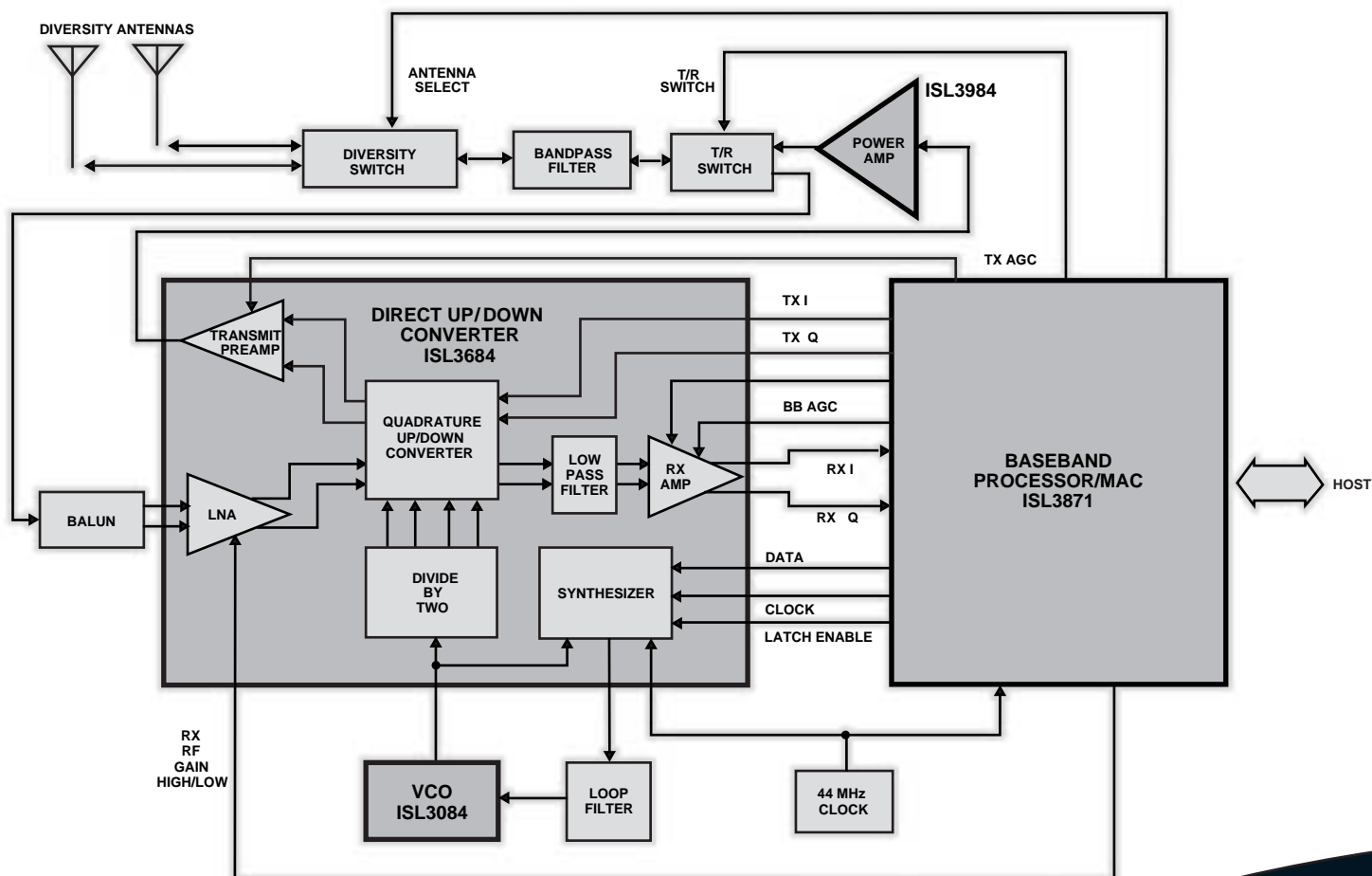
ISL3684	Direct Up/Down Converter - Single chip PHY
ISL3871	Integrated Baseband/MAC

Power & VCO

ISL3084	VCO - 5GHz
ISL3984	Power Amplifier

Specifications on back

PRISM 3 Block Diagram



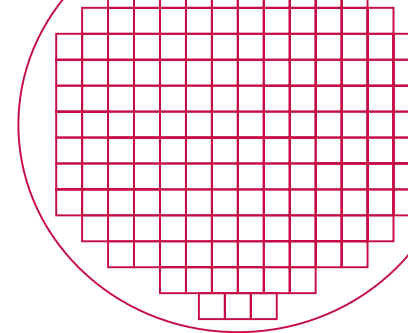
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UNLEASHING THE POWER OF CONNECTIVITY™

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SPECIFICATIONS

Variable Data Rates	11, 5.5, 2 and 1Mbps	
Frequency Band	2.4GHz ISM Band	
BER (Bit Error Rate)	1x10-5 at -84dBm	
Dual Mode	IEEE 802.11b - 2, 5.5 and 11Mbps	
Range	100ft Indoors*	
Power Consumption, PCMICA Reference Design	(Continuous, @ 3.3V \pm 10%)	
	RX	270mA or .9W
	TX	315mA or 1.0W
	Standby	4mA or .01W

**Typical, 100ft @ 11 Mbps*