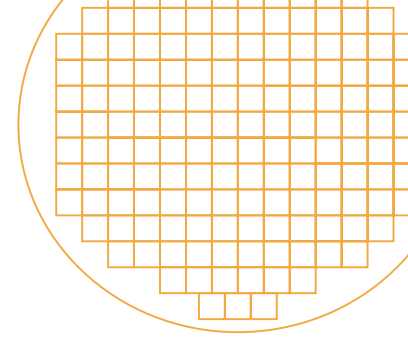


products

PRISM[®] 2.5, 11Mbps

with USB interface

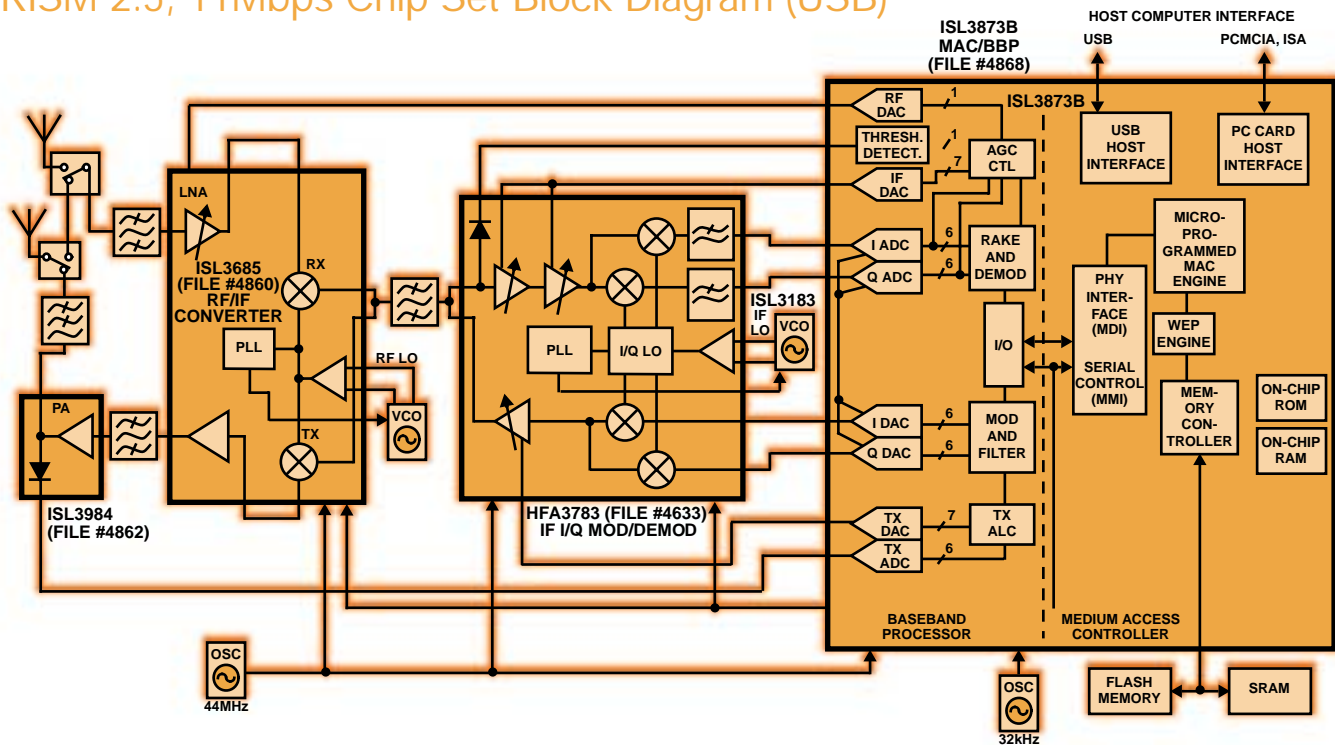


PRISM[®] 2.5 underscores Intersil's commitment to driving the widespread deployment of wireless networking capability in ever-smaller computing devices. The PRISM 2.5 solution features the world's first single-chip Baseband Processor (BBP) and Medium Access Controller (MAC) that integrates digital functions normally done by two ICs. The ISL3873 integrated BBP/MAC includes a PCMCIA and USB interface that will allow Original Equipment Manufacturers (OEM) to easily add a USB interface into next-generation IEEE 802.11b wireless networking products for the home and office. The PRISM 2.5 solution includes integrated circuits (ICs), software, firmware and a companion

voltage-controlled oscillator (VCO) to give systems manufacturers a highly integrated, full-featured solution for designing 802.11b-compliant wireless networking capability into computing and Internet appliance devices requiring a PCMCIA or USB interface. Intersil is developing PRISM 2.5 Reference Designs for PCMCIA and small and large form factor USB cards.

- ISL3984 - 2.4GHz Power Amplifier and Detector
- ISL3685 - 2.4GHz RF/IF Converter and Synthesizer
- HFA3783 - I/Q Modulator/Demodulator Synthesizer
- ISL3873B - Integrated MAC and Baseband Processor

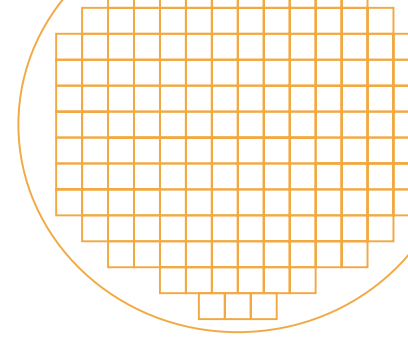
PRISM 2.5, 11Mbps Chip Set Block Diagram (USB)



products

PRISM[®] 2.5, 11Mbps

with USB interface



SPECIFICATIONS

Variable Data Rates	11, 5.5, 2 and 1Mbps
Frequency Band	2.4GHz ISM Band
BER	1x10 ⁻⁵ at -83dBm
Dual Mode	IEEE802.11, 1 and 2Mbps
	5.5 and 11Mbps
Range	100m Indoors*
Power Consumption	Same as PRISM II

*Range test using AND-C-107 omnidirectional antenna.

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
ISL3984	2.4GHz Power Amplifier and Detector
ISL3984IR	16 Ld, 4x4mm MLFP
ISL3984IR96	1000 pcs. Tape and Reel
ISL3685	2.4GHz RF/IF Converter and Synthesizer
ISL3685IR	44 Ld, 7x7mm MLFP
ISL3183	VCO
ISL3183IR	16 Ld, 4x4mm MLFP
ISL3183IR96	1000 pcs. Tape and Reel
ISL3685IR96	1000 pcs. Tape and Reel
HFA3783	I/Q Modulator/Demodulator and Synthesizer
HFA3783IN	48 Ld, 7x7mm LQFP
HFA3783IN96	1000 pcs. Tape and Reel
ISL3873B	Wireless LAN Integrated Medium Access Controller with Baseband Processor
ISL3873BIK	V192 Ld, 14x14mm BGA
ISL3873BIK-TK	1000 pcs. Tape and Reel