

Direct Down Conversion Transceiver

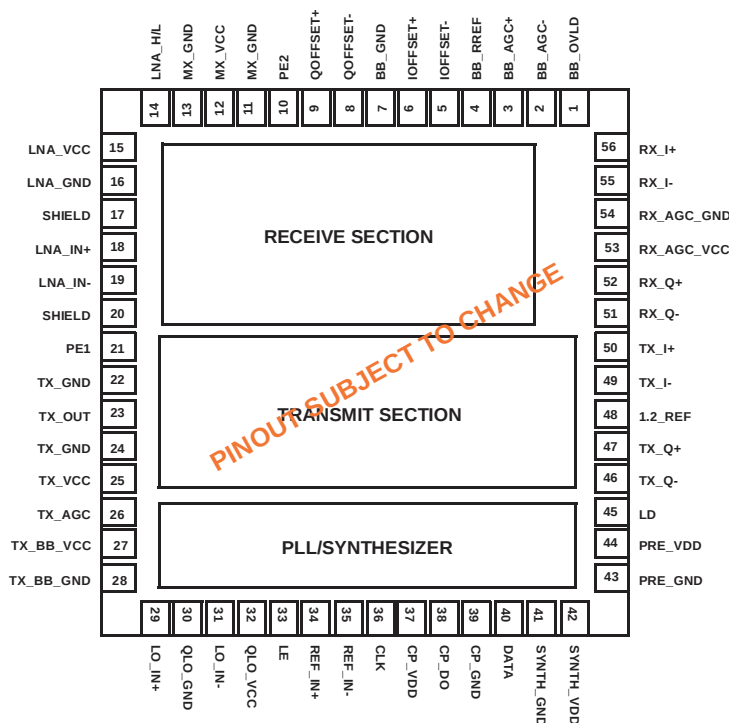


The Intersil ISL3684 Wireless LAN Integrated RF Front End is part the PRISM 3, 2.4GHz 11Mbit, 802.11b compliant radio chipset. The

ISL3684 interfaces directly with Intersil's ISL3871 Integrated LAN Medium Access Controller with Baseband Processor. The addition of the ISL3984 Power Amplifier and ISL3084 5GHz VCO completes the PRISM 3 LAN radio application.

Pinout

ISL3684
MLFP
TOP VIEW



Features

- Highly integrated RF to baseband solution
- Frequency of operation 2.4GHz to 2.5GHz
- Low supply operation 2.7V to 3.3V
- Noise figure 5.4dB
- Voltage gain -2.5dB to 88.5dB
- Gain and phase balance $\pm 0.5\text{dB}$, $\pm 2\text{deg}$.
- TX/RX switching speed $< 1\mu\text{s}$
- Direct simple interface to ISL3871

Applications

- PC card wireless LAN adapters
- High data rate wireless LAN systems targeting IEEE802.11b standard
- Spread spectrum WLAN RF modems
- TDMA or CSMA packet protocol radios
- PCI wireless LAN cards
- ISA, ISA PnP WLAN cards
- PCN / wireless PBX / wireless local loop