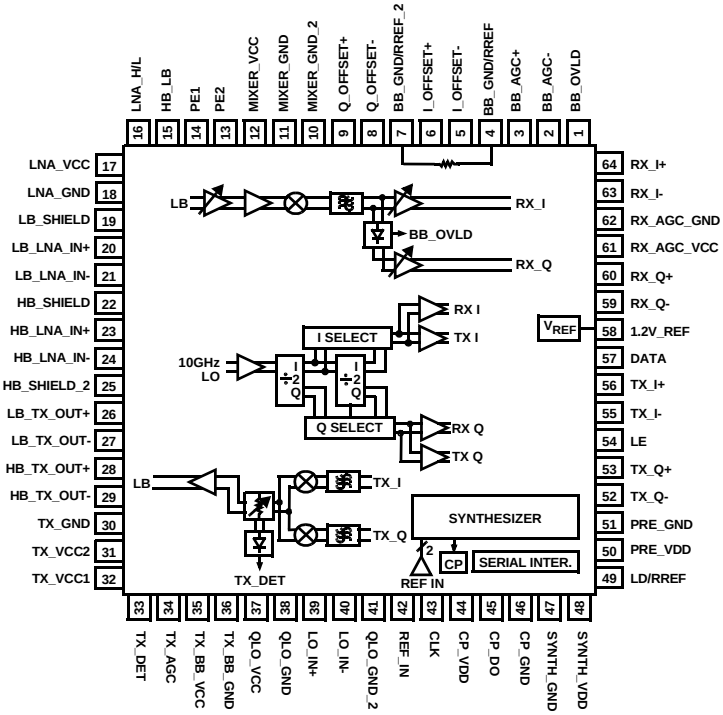
PRELIMINARY | Data Sheet | June 2003 | FN8074

Dual Band Direct Conversion Transceiver

The Intersil ISL3692 is a highly integrated SiGe process, Dual Band direct conversion transceiver and is part of a 2.4/5.2GHz, Worldwide IEEE802.11a/b/g compliant radio chipset. The ISL3692 directly interfaces with Intersil's ISL3886 Medium Access Controller with Integrated Baseband processor. The addition of Intersil's ISL3992 power amplifier and ISL3092 11GHz VCO completes a WLAN transceiver application.

Pinout

ISL3692 (QFN)
TOP VIEW



Features

- Highly integrated Dual Band RF to baseband solution
- Operating Frequency . 2.4 to 2.5GHz or 4.915 to 5.92GHz
- Low supply operation . . . . . 2.7 to 3.3V
- Noise figure 5.4dB
- TX OFDM Output Power . . . . . .-5dBm
- TX I/Q MTPR, PAR=12 . . . . . -45dB
- RX Voltage gain . . . . . 0 to 74dB
- RX I/Q MTPR, PAR=12, High Gain . . . . . -35dB
- TX/RX switching speed . . . . . <1µs
- Direct simple interface to ISL3886
- QFN Package:
  - Compliant to JEDEC PUB95 MO-220 QFN - Quad Flat No Leads - Package Outline
  - Near Chip Scale Package footprint, which improves PCB efficiency and has a thinner profile

Applications

- PC card wireless LAN adapters
- High data rate wireless LAN systems targeting IEEE802.11 a/b/g standards
- Spread spectrum Dual Band WLAN RF modems
- TDMA or CSMA packet protocol Dual Band radios
- PCI wireless LAN cards
- ISA, ISA PnP WLAN cards

Ordering Information

PART NUMBER	TEMP. RANGE (^{O}C)	PACKAGE	PKG. DWG. #
ISL3692IR	-40 to 85	64 Ld QFN	L64.9x9
ISL3692IR-TK	Tape and Reel		

CAUTION: These devices are sensitive to electrostatic discharge; follow proper IC Handling Procedures.
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