

PRISM Indigo™ 54Mbps Wireless Local Area Network miniPCI



The Intersil ISL37704M WLAN miniPCI (Note 1) is a complete wireless high speed Network

Interface Card (NIC) utilizing the Intersil PRISM Indigo chip set. It provides a complete PRISM Indigo reference design evaluation platform of hardware and software to system providers or integrators requiring wireless data communications capability and is ideal for integration into computer platforms.

Evaluation kits include a WLAN miniPCI card and a WLAN CARDBUS32 card designed to Intersil's PRISM reference design, Microsoft® Windows® Driver, Local Area Network evaluation software, Test Utilities (Note 3), and documentation to get your evaluation started quickly. It supports the IEEE 802.11a specification, providing data rates of 54, 48, 36, 24, 18, 12, 9, and 6 Mbps. Access Points are available from a number of suppliers, enabling a total wireless network solution. Typical operating ranges are shown in Table 1.

A complete PRISM chipset WLAN reference design package (ISL37704M-CD) is also available. The reference design package contains all the documentation needed for manufacturing of the PRISM Indigo miniPCI wireless network card including: Cadence/Allegro Layout, Gerber files, Concept schematic, Bill of Materials, assembly and mechanical drawings, manufacturing test software, and even a copy of the application for FCC equipment authorization. Customers who license the reference design also receive password access to Intersil's Premier Web site for up to the minute updates on hardware and software.

Packaging



Features

- FCC Certified Under Part 15 to Operate in 5GHz Band
- Support for 54, 48, 36, 24, 18, 12, 9, and 6 Megabit Per Second (Mbps) Data Rates
- Supports the IEEE 802.11a Specification
- Driver Supports Microsoft® Windows® 98/SE, ME, XP, 2000 (SR1)
- Supports Dual Diversity Antennas
- Provides Wireless Data Communications to support live video applications
- Designed to Fully Support PC Card Specification Revision 8 Defined Mechanical and Environmental Stress Conditions
- Intelligent Power Control, Including 802.11 Power Save Mode
- Complete Reference Design, the ISL37704M-CD is available to ensure minimum time-to-market

NOTES:

1. Throughout this document, all references to 'miniPCI', 'WLAN adapter', 'adapter', or 'card' refer to a card assembly conforming to the mechanical size specifications of the miniPCI Type 3A.
2. The range will vary in different operating environments due to effects such as building construction. The indoor range data have been taken in very tough office environment with several walls between transmitter and receiver.
3. At present, Test utilities supports Windows 2000.

Ordering Information

| PART NUMBER | DESCRIPTION | CARDS/SET |
|----------------|---------------------|---------------------------|
| ISL37704M-EVAL | WLAN Evaluation Kit | 1 miniPCI and 1 CARDBUS32 |
| ISL37704M-CD | Reference Design | NA |