PRELIMINARY | Data Sheet | May 2003 | FN8068

ISL38001M PRISM GT™ miniPCI IEEE 802.11g, 802.11b WLAN NIC

The Intersil ISL38001M WLAN NIC (Note 1) is a complete wireless high speed Network Interface Card (NIC). utilizing the Intersil PRISM GT chip set. The ISL38001M is a lower cost alternative to the ISL38000M radio. It offers improved range compared to the ISL38000M while providing equivalent performance in other categories. It conforms to the IEEE 802.11b and 802.11g protocols and therefore operates in the 2.45GHz ISM frequency band. It provides a complete 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 one WLAN miniPCI card and one WLAN CARDBUS32 card,each 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 provides OFDM data rates of 54, 48, 36, 24, 18, 12, 9, and 6Mbps as well as CCK data rates of 11 and 5.5Mbps and legacy data rates of 2 and 1Mbps. 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 (ISL38001M-CD) is also available. The reference design package contains all the documentation needed for manufacturing of the PRISM GT miniPC 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.

Ordering Information

PART NUMBER	DESCRIPTION	CARDS/SET
ISL38001M-EVAL	WLAN Evaluation Kit	1miniPCI 1 Cardbus32
ISL38001M-CD	Reference Design	NA

Features

- Low cost Zero IF (ZIF) architecture
- Fully compliant with the IEEE 802.11b and 802.11g WLAN standards
- FCC Certified Under Part 15 (pending)
- Support for 54, 48, 36, 24, 18, 12, 9, and 6Mbps OFDM, 11 and 5.5Mbps CCK and legacy 2 and 1Mbps data rates
- Driver Supports Microsoft Windows® 98/SE, ME, XP and 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 ISL38001M-CD is available to ensure minimum time-to-market

NOTES:

1. Throughout this document, all references to 'miniPCI', 'WLAN adapter', refer to a card assembly conforming to the mechanical size specifications of the miniPCI Type3A card.
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 a lot of walls between transmitter and receiver.
3. At present, Test utilities supports Windows 2000.

CAUTION: These devices are sensitive to electrostatic discharge; follow proper IC Handling Procedures.
1-888-INTERSIL or 321-724-7143 | Intersil (and design) is a registered trademark of Intersil Americas Inc.
Copyright © Intersil Americas Inc. 2003. All Rights Reserved. All other trademarks mentioned are the property of their respective owners.
PRISM® is a registered trademark of Intersil Americas Inc. PRISM and design is a trademark of Intersil Americas Inc.