

# CellNode M1

802.11b/g Mini PCI Adapter



## ● Product Overview

CellNode M1 is a wireless Mini PCI adapter that enables connectivity to existing 802.11g and 802.11b networks. The adapter supports Super-G and Extended Range technologies to allow transfer rates of up to 108Mbps and transmission distance 2 to 3 times bigger than that of standard wireless adapters. Compatibility with the 802.11g and 802.11b protocols allows users to leverage the large installed base of 802.11b technology, yet to gain the benefits from higher data rates of up to 108Mbps when connecting to 802.11g networks supporting Super-G technology.

In addition to high speed and universal connectivity, CellNode M1 offers user privacy through encryption of transmitted data. The adapter supports a number of advanced data encryption technologies, such as WEP, WPA, WPA2, IEEE802.1X, TKIP, and AES. With faster connections, better coverage and stronger network protection, CellNode M1 is an excellent choice for bandwidth intensive application such as IP TV, Video-on-Demand, and Pay-per-View.



## ● Key Features

### ● Super G technology for faster connections

Utilizing Super-G technology, CellNode M2 delivers transfer rate of up to 108 Mbps, which is 2 times faster than the rate of standard 802.11g devices. Faster connections provide users with more time to enjoy watching movies or listening to music than spending time downloading online content.

### ● Extended Range technology for better coverage

CellNode M1 also utilizes Extended Range technology to ensure wider area coverage. Compared with standard 802.11g devices, CellNode M1 offers 2 to 3 times more coverage. That allows users to connect to the wireless network from farther distances.

### ● WEP/WPA/WPA2 support for stronger network security

CellNode M1 supports advanced encryption technologies, including WEP, WPA, WPA2 and others, to deliver stronger network security. By encrypting communications to and from users, CellNode M1 safeguards users' data and privacy in wireless network environment.

### ● Wireless Roaming support for greater user mobility

CellNode M1 supports wireless roaming to provide users with greater mobility. With roaming, users gain the flexibility to move within the boundaries of wireless networks without experiencing interruption of network access.

### ● Infrastructure and Ad-Hoc Modes support for flexible implementations

CellNode M1 supports multiple modes of operation to allow more flexible implementations. In Infrastructure Mode, the device communicates with wireless access points in order to gain network access. In Ad-Hoc Mode, CellNode M1 communicates directly with other wireless clients in a peer-to-peer manner.

## ● Technical Specifications

- **Standards:** IEEE 802.11g, IEEE 802.11b
- **Data rate:** Up to 108Mbps with Super-G
- **Operating Frequency:**
  - 2.400 GHz to 2.4835 GHz frequency band,
  - 1~14 channels
- **Transmission Range:**
  - Indoor: 100m-200m (Extended Range)
  - Outdoor: 200m-800m (Extended Range)
- **Security:**
  - 64/128/152-bit WEP
  - WPA
  - WPA2
  - IEEE 802.1X
  - TKIP
  - AES
- **Spread Spectrum:** DSSS
- **Technologies:**
  - Super G™ WLAN up to 108MBps
  - Extended Range™ WLAN
- **Transmit Power:** 16 dBm (typical)
- **Radio Data Rate:**
  - 108/54/48/36/24/18/12/
  - 9/6/11/5.5/3/2/1Mbps (Auto Rate Sensing)
- **Modulation**
  - 1M DBPSK; 2M DQPSK; 5.5M, 11M CCK;
  - 6M, 9M, 12M, 18M, 24M, 36M, 48M, 54M, 108M OFDM
- **Connector:** Mini PCI
- **Misc:** Detachable Reverse SMA Antenna
- **Indicator:** LED
- **Certifications:** FCC, CE
- **Power Consumption:**
  - Full transmit (TX) - 430 mA
  - Full receive (RX) - 330 mA
- **Dimensions (H x W x D):** 60 mm x 45 mm x 3.3 mm
- **Operating Temperature:** 32F to 104F (0C to 40C)
- **Storage Temperature:** -40F to 158F (-40C to 70C)
- **Operating Humidity:** 10% to 90% Non-Condensing
- **Storage Humidity:** 5% to 95% Non-Condensing
- **Operating Systems:** Windows 98SE, ME, 2000, XP



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