1. Introduction

The IEEE 802.11b-compliant WaveCast system is appropriate for home or SOHO users, hospitals, schools and universities, etc. WaveCast users can wirelessly access other PCs, or peripheral devices attached to them, and surf the web at high speeds up to 11 Mbps.
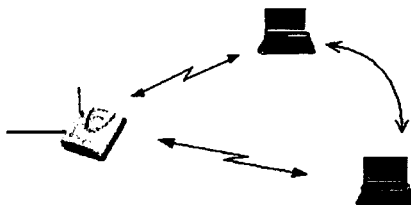
The WaveCast system enables:

- Multiple users to access the Internet simultaneously.

- Users to implement a network environment without the need of cumbersome network cables.

- Users to enjoy the Internet or LAN anywhere indoors or outdoors using notebook PCs or similar portable devices.

- Users to access the Internet or LAN within a maximum indoor range of 70 meters and maximum outdoor range of 300 meters.

- Multiple users to connect to each other and even play together in a network game.

Network Implementation Using WaveCast products

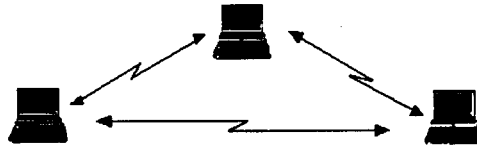There are two possible kinds of network configurations when using WaveCast products:

(1) Network Using an Access Point (Infrastructure Configuration)

Using the Client/Server or Master/Slave concept, an Access Point (such as WaveCast MW411AP Access Point) can be connected to a wired network and act as a wireless link between the wired LAN and other network nodes (PCs) and also as a wireless link between the nodes. This configuration thus enables communication between wired and wireless networks.

(2) Network Not Using an Access Point (Ad-Hoc Configuration)

Without a specific master device, all network nodes (PCs) communicate with each other on the same level. This configuration supports communication between wireless clients. In this configuration, users do not use an Access Point because a wired network is not being accessed.

In order to access the Internet, the wireless network must have at least one Access Point (such as WaveCast MW411AP Access Point) and be set to the Infrastructure configuration.

<u>Appendix A. Access Point Specification</u>

■ H/W Specifications

< RF Specification >

- Standard: IEEE 802.11b
- 2.400~2.4830 GHz: DSSS (Direct Sequence Spread Spectrum) Communication over ISM band
- Modulation: 1M (DBPSK), 2M (DQPSK), 5.5M & 11M (CCK)
- Receiving Sensitivity: -84 dBm @ 11Mbps (min)
- Data Transmission Rate: 1M, 2M, 5.5M, 11Mbps with Auto Fall-back Feature (across air)
- Output Power (Typical): +15 dBm (30mW)

< External Interface >

- RJ45: 1 Port, Ethernet (10Base-T Type)
- D-Sub9: RS-232 Port
- Power Supply Connector: 1 ea
- Reset Switch: 1 ea

< Dimension >

- Size: 123 x 181 x 39 (mm)
- Weight: 285 g

< Accessory >

- Power Adapter (5V): 1 ea
- RJ45 cable: 1 ea
- AP stand base: 1 ea
- Fastener for the stand base (1 ea)
- Rubber padding for stand base (4 ea)
- Antenna: 1 ea (optional)

■ S/W Specifications

- Ethernet-to-Wireless LAN Bridging
- IP Sharing (NAT)
  - Fixed IP
  - Automatic IP (DHCP Client)
  - PPPoE (PPP over Ethernet)
- DHCP Server
- DNS Relay
- HTTP
- Telnet
- TFTP