



Operational Statement

Microsoft Broadband Networking Wireless USB2.0 Adapter Model MN-710

The MN-710 is a USB Wireless Adapter used to connect a home user's PC wirelessly to a home computer network and to the Internet when the user has internet connectivity. This allows use of an existing home 802.11b or 802.11g wireless network, managed by a wireless Access Point, to accommodate a new PC. The MN-710 is a USB2.0 device and is backward compatible with earlier versions of USB.

MN-710 securely shares a broadband modem and internet connection with other wireless devices in a home environment, and allows network access with other network devices in the household or over the internet

The MN-710 communicates with a wireless base station utilizing IEEE 802.11g radio protocols (also compatible with IEEE 802.11b wireless devices). It provides up to 54 Mbps radio transmission (with fallbacks to 24, 12, 11, 5.5, 2 and 1 Mbps) in the 2.4 GHz unlicensed Industrial Scientific Medical (ISM) radio band.

The user sets up the MN710 by connecting it to the user's USB port. Easy-to-set-up software allows the user to configure the MN710.

The MN-710 is powered by 5VDC (SELV) from the USB connection. This voltage is converted by regulators into 3.3, 2.84, 2.5, and 1.8VDC to power the analog and digital circuits. Crystal oscillators running at 32.768KHz, 30MHz, and 40MHz provide timing for the baseband IC and USB controller. The channel frequency is provided by a VCO. 802.11g/b parameters, USB parameters, and the PID/VID are stored in EEPROM.

The MN-710 antenna is permanently attached. The printed circuit board incorporates both analog and digital ground planes for the purposes of signal integrity and EMI reduction.

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