Title (en)

WIRELESS SPREAD-SPECTRUM DATA NETWORK AND INTERFACE BETWEEN FIXED POSITIONS

Title (de)

DRAHTLOSES SPREIZBUND-DATENNETZWERK UND SCHNITTSTELLE ZWISCHEN FESTEN POSITIONEN

Title (fr)

RESEAU DE COMMUNICATION DE DONNEES A SPECTRE ETALE, SANS FIL, ET INTERFACE ENTRE DES POINTS FIXES

Publication

EP 1112631 A1 20010704 (EN)

Application

EP 99937424 A 19990723

Priority

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Abstract (en)

[origin: WO0016508A1] A wireless, high-capacity spread-spectrum data network, including an interface card that can be placed in a personal computer. The interface card is a wireless transceiver (108) for IP (Internet Protocol) routing to and from the personal computer, which is a host computer. The interface includes a RAM (152, Fig 5) that has a port for access by the host computer for retrieval of received data and baseband spread spectrum processor that provides a modulated transmitted signal and that demodulates received signals over a TDMA/FDMA data link. The interface card also includes a RAM controller (212, Fig 5) and a control processor, so that the host computer is not burdened with scheduling real time data transmitting and receiving. The system includes a head end coupled to a network such as Internet. The head end includes an antenna array that subdivides space into a number of independent sectors in which frequencies can be reused efficiently with orthogonal polarizations. Packets from individual remote end stations are delayed in accordance with their distance from the head end computer, and data packets are scheduled in accordance with the amount of traffic to be communicated.

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H04J 3/00; H04B 7/216; H04B 7/15; H04H 1/00

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CPC (source: EP)

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