

Tivoli Networks Operational Description

Features:

The Networks allows access to internet radio stations without the use of a computer

Memory sticks or an IPOD containing MP3 or WMA audio can be played through the USB jack

Music stored on the hard drive of a computer can be accessed via the internet using the Music Player mode

FM mode plays FM broadcast stations via a digital tuner
Audio amplifier and equalized speakers are included

Module

The heart of the system is a module by Frontier Silicon that contains the microprocessor and program to access the internet in either wired or wireless mode
Digital audio obtained from the internet is decoded via an onboard DAC in MP3, WMA, REAL or AAC formats

The module supplies analog audio to the amplifier section

The wifi transmitter/ receiver is also on the module as well as an onboard wifi antenna
The module also contains an FM tuner

The keypad and Infrared remote sensor interface directly to the module
The module also drives the LCD display

Direct USB input
Wired Internet input from separate Ethernet IC

Power requirements 3.3VDC and 1.2VDC

Audio section:

Electronic source switching and volume control proceed the active electronic equalization and integrated stereo power amplifier

Main unit contains the left speaker and matching right speaker is available

Power supply:

Internal transformer and bridge rectifier
Switching supply for 5VDC
Linear regulators for 1.2V 3.3V and 9V
12VDC jack for direct 12V operation