

Open Source IoT, VoIP Adapter

MS14-S



OVERVIEW:

The MS14-S is a high performance, low cost Linux, WiFi appliance. It lets you embed Linux into your IoT/VOIP projects.

MS14-S is a low cost, open hardware Linux adapter for micro-controllers.

MS14-S runs open source linux system, has USB host port and has full Ethernet and 802.11 b/g/n WiFi capabilities.

Features:

- Open source Linux (OpenWrt) inside
- Open hardware design
- Low power consumption
- AP, Client or Mesh Ad-hoc WiFi mode
- Compatible with Arduino Yun software
- Built-in web server
- Remote upgrade AVR daughter aboard
- Managed by Web GUI, SSH or Serial
- Optional internal / external Antenna
- ESD protection for sensor ports

Interface to module

- 3.3v / 5v and 12v output
- SPI /PCM/UART/I2C Interface
- GPIOs x 11
- 1 x LED for module
- RESET control from module
- Built-in web server
- 14 ports sensor connection

Specification:

- Processor: 400MHz, 24K MIPS
- Flash: 16MB
- RAM: 64MB
- Power input: 9 ~ 12v DC or 5v DC
- 2 x 10M/100M RJ45 connectors
- 1 x USB 2.0 host connector
- WiFi protocol: 802.11 b/g/n

Type Approval

- FCC Part15 Subpart B, Subpart C
- CE NB
- C-Tick

OpenWrt Inside:

Built upon on a mature, open source linux distribution to speed up the development and debug process

Open Hardware:

Possibility for modify / innovation and provide an unique product to the market

Modular Design:

The most complicate and difficulty parts are built as mother board. Developers focus on the MCU daughter board design. This helps to reduce the development time, cost, risk, difficulty to release a new product to test/seize the market.

Applications:

- Internet of Things projects
- Voice over IP application
- Mesh WiFi Network