seeed studio

INDUSTRIAL PRODUCT DATASHEET

WRTnode - Open Source and Mini OpenWRT Dev Board

WRTnode: a low-cost, open-source OpenWrt mini Linux+Wi-Fi board with high-performance 300Mbps Wi-Fi and comprehensive I/O for smart device development.

SKU	UPDATED	PRICE
317060005	2026-02-28 12:28:59	$29.99(Excl. VAT)



Overview



The WRTnode is a compact, open-source development board running OpenWrt Linux, designed for Internet of Things and embedded applications. It features a MediaTek MT7620N 600MHz MIPS CPU, 512Mb DDR2 RAM, 128Mb SPI flash, 300Mbps 2.4GHz Wi-Fi, 23 GPIOs, USB 2.0, and Ethernet connectivity.

Key Features

Description
WRTnode is a high performance CPU, low power consuming, cheap, and samll dev board that can run OpenWRT OS and also easy to port all open source software of Linux.

Today, more and more devices could connect to internet, named Internet of Things. The WRTnode is a small node which could connect internet all by itself and do something complicated. Such as track a cat running over, identify what you are saying and twitter it, check email and pronounce for you, learn how your room layout and find garbage to sweep while streaming camera video to you over internet.

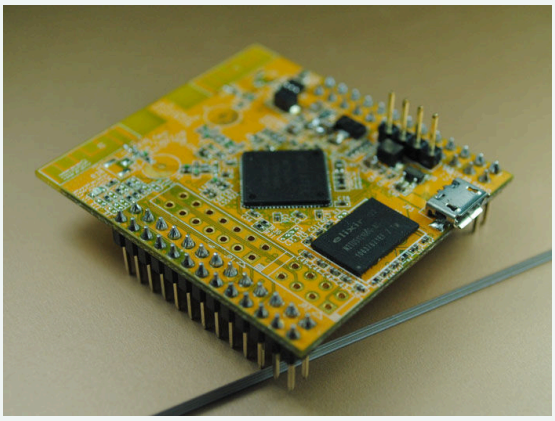
Features:
Opensource hardware for OpenWrt
mini Linux+Wi-Fi board
easy and completed IDE
smart machines' heart
low power-consuming
complete I/Os, high performance
300MBit/s Wi-Fi and low price

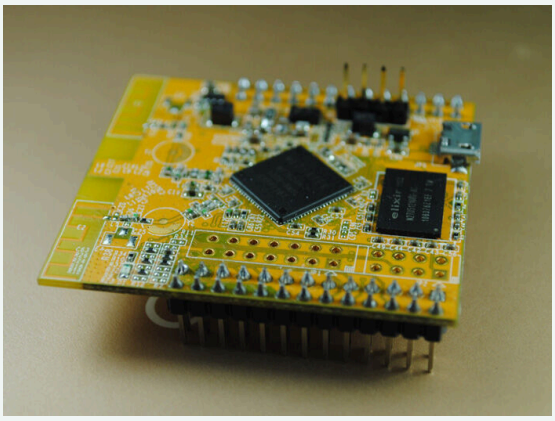
Hardware Specification：
45mm*50mm
MTK MT7620N 600MHz mips cpu (MIPS24KEc)
512Mb DDR2ram
128Mb spi flash
2T2R 802.11n 2.4 GHz
23GPIOs
5-Port PHY (JTAG)
SPI
UART Lite
USB2.0

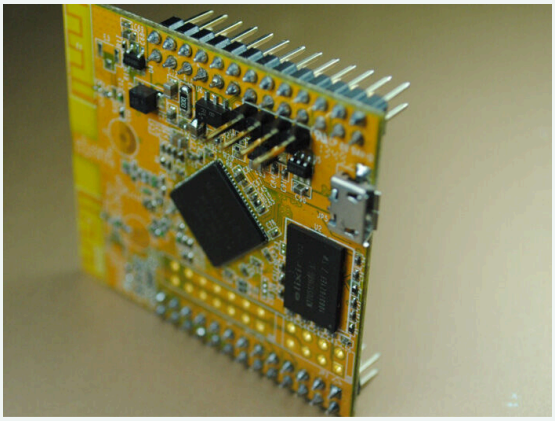
Software Feature：
Based on OpenWrt BARRIER BREAKER (Bleeding Edge, r41508)
Using rt2860v2 Wi-Fi driver hacked by lintel
Using customized uboot hacked by manfeel
WRTnode aplci up link Wi-Fi configuration (aps/vw/nr/ia)
Luci Wi-Fi wpa patch for rt2860v2
Local dns add i.wrtno.de & wrtnode.lan besides openwrt.lan to WRTnode with the default WRTnode ip is 192.168.8.1
WRTnode additional feature (all source opened github.com/WRTnode):
Opencv 2.4.8
Native gcc-mipsel on mt7620 and bin-utils
Porting linino (Arduino yun) source to WRTnode
Shine: fast fixed-point mp3 encoding
And some WRTnode demo apps: opencv application demo, mechanical control demo, RESTful front-end demo and some other thing

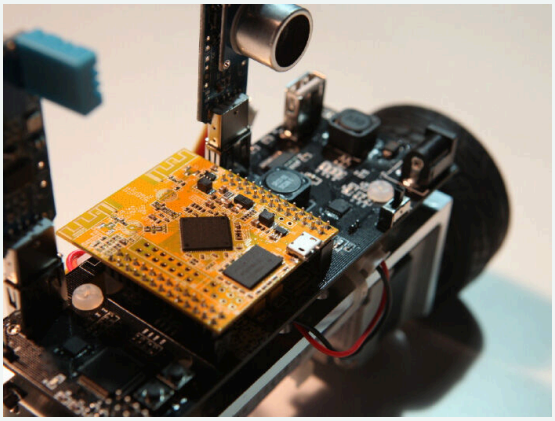
Resource
Documents
Quick Mesh Project for WRTnode

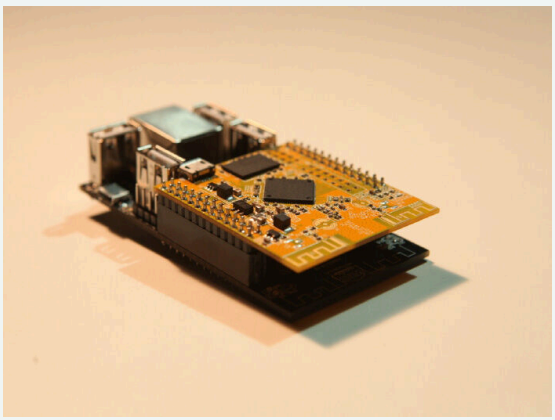
Product Gallery











Compliance & Logistics



HSCODE	8517180050
USHSCODE	8543709860
UPC	841454115687
COO	CHINA

Resource Links

- https://www.seeedstudio.com/WRTnode-Open-Source-and-Mini-OpenWRT-Dev-Board-p-1980.html

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