

# MT7621A/N

Dual-core Network Processor for 2x2/3x3/4x4 Wi-Fi platforms



## MT7621A

MediaTek MT7621A Wi-Fi SoC contains a powerful 880 MHz MIPS® 1004KEc™ dual-core CPU, a 5-port Gigabit Ethernet switch, and a rich array of connectivity options including RGMII, PCIe, USB, SD-XC, and so on. The new SoC also includes the company's field proven hardware support for Network Address Translation (NAT), Quality of Service (QoS), SAMBA, Virtual Private Network (VPN) and others routing and tunneling applications, ideal for high performance Wi-Fi 5, LTE cat4/5, edge, hotspot, VPN routers, NAS, and AC (Access Point Controller), smart routers. Moreover, the MT7621A applies low-power technology and can fit into 2/4 layers PCB design with good power dissipation.

- AC1200: +MT7612E+MT7603E
- AC2600: +MT7615(2)
- AX1800: +MT7915D

## Specifications

### CPU & GPU

CPU Type  
MIPS1004Kc

CPU Bit  
32-bit

CPU Core  
Dual (2)

CPU Frequency  
880MHz

### Connectivity

Ethernet  
5 port Fast Ethernet Switch + RGMII

PCI-Express  
Host(3)

USB  
USB 3.0 (1), USB 2.0 (1)

I/O  
GPIO, I2C, JTAG, MDC, MDIO, UART(3)

### Hardware Features

Network Accelerator  
2Gbps IPv4/6 routing, NAT, NAPT+HQoS

DRAM  
16b DDR2, 16b DDR3

Flash  
SPI, SLC NAND

Storage Accelerator  
Yes

Audio Interface  
I2S, PCM, S/PDIF

### Software

Crypto  
200Mbps Crypto Suite

iNIC  
Linux 2.4/2.6 (RGMII)

OS  
Linux 2.6.36 SDK, Linux 3.10 SDK, OpenWRT

### Bundled Platform

#### Options

**MT7621A:** embedded 5p GbE Switch

**MT7621N:** no 5p GbE Switch

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