DATASHEET

Wi-Fi Router Board
AP7621-003

Description

AP7621-003 is a 154x70 mm Router board with MT7621A integrates a dual-core MIPS1004Kc (880MHz), HNAT/ HQoS/ Samba/ VPN accelerators, GbE switch, RGMII, Mini PCIe and SDXC. The powerful CPU with rich portfolio is suitable for 802.11ac, LTE cat4/5, edge, hotspot, VPN, AC (Access Control). It can also connect to touch-panel, ZigBee / Z-Wave for Internet Service Router and Home Security Gateway.

For the next generation router, MT7621A provides several dedicated hardware engines to accelerate the NAT, QoS, Samba and VPN traffic. These accelerators relief the CPU for other upper layer applications.

Features

- Mediatek MT7621A chipset
- Flash SPI NOR16MB, DDR3 512MB 16bits BUS
- 32 KB I-Cache and 32 KB D-Cache per core
- 256 KB L2 Cache (shared by Dual-Core)
- SMP capable
- Single processor operation configurable Gigabit Switch
- IPv4 routing, NAT, NAPT
- IPv6 routing, DS-Lite, 6RD, 6to4, HW QoS
- HNAT/ HQoS/ Samba/ VPN accelerators
- Support boot from Flash
- Mini PCIe, M.2 B-Key, Micro SDXC, SPI

- Giga Ethernet ports with Power over Ethernet (PoE) MDI transceivers
- 16 hardware queues to guarantee the min/max bandwidth of each flow
- Seamlessly co-work with HW NAT engine
- 2Gbps wired speed HW Crypto Engine
- Deliver 400~500 Mbps IPSec throughput Green
- Intelligent Clock Scaling (exclusive)
- SDK support OPENWRT
- Suitable with IEEE802.11ac MT7612E, MT7615, LTE, 3G mini PCIe cards Powerful Wi-Fi and IoT Gateway like LoRa, Sigfox

For more detailed information, please contact our sales team: sales@asiarf.com / +886 2 2940 7880