

RD_P1020WLANS: QorIQ P1 WLAN Appliance Solutions ☆

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Buy



The P1020EWLAN access point/router is a complete production-ready Bill of Materials (BOM)-optimized solution that can support single- or dual-radio 802.11 a/b/g/n/ac devices through MiniPCI or Mini PCI Express® interfaces. The solution features a 3 x 3 MIMO design, dual Gigabit Ethernet ports, USB 2.0, and is backwards compatible with 802.11 a/b/g products.

IEEE® 802.11N WLAN radios are capable of supporting wireless data rates up to 300 Mbps per radio and the P1020 communication processor is ideally suited to maximize performance while still meeting the power and cost budgets required by this application. The P1020EWLAN can be powered over a single Ethernet cable in 3 x 3 MIMO mode using a single 802.3af Power over Ethernet (PoE) link.

The form factor complete reference design provides a starting point for your development needs, accelerating time to market while significantly reducing overall development costs. This system demonstrate how a high-performance CPU provides the complete data and control path processing needs for multiple radio solutions while providing excellent throughput with best-in-class performance/watt.

Features

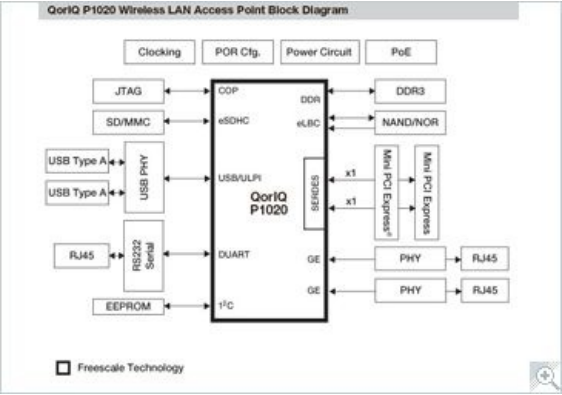
- P1020 in 45nm SOI operating at 533-800MHz dual core e500 processor with 256KB L2 cache with ECC
- 256MB to 512MB DDR3 SDRAM
- 4 FXS ports
- 1 FXO port
- 1 GbE RGMII port
- 1 GbE SGMII port
- 1 GbE port connected to RGMII 5-port switch
- 2 mini-USB 2.0 ports
- 1 mini-PCI Express connector
- 1 PCI Express
- VortiQa software with Stateful Packet Inspection Firewall and NAT - performance optimized IPsec Virtual Private Network (VPN) with Quality of Service (QoS) and Traffic Management (TM)

D2 Technologies optimized voice

- G.711-Alaw
- G.711-MuLaw
- G.729AB
- G.726 Voice Compression
- G.168 Echo Cancellation

Advanced telephony

- Full Distributed Unicast Conferencing
- Call forwarding
- Call Waiting/ Caller ID.



Supported Devices

- └ P1020: QorIQ P1020/11 Single- and Dual-Core Communications Processors

Featured Documentation

- P1020EWLANFS: QorIQ P1020EWLAN fact sheet

Support Policy

- RDS-SUPPORT: Reference Design Systems Support

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