

## Belkin N750 DB Wireless Dual-Band N+ Router: 802.11n and WAN Routing Performance vs. Comparable Routers

### EXECUTIVE SUMMARY

As the number of Wi-Fi devices in the home grows, new applications on those devices are driving the demand for Wi-Fi bandwidth ever higher. Belkin's new line of Wi-Fi routers are focused on maximizing the bandwidth available for user applications and delivering the best user experience from any point in the house.

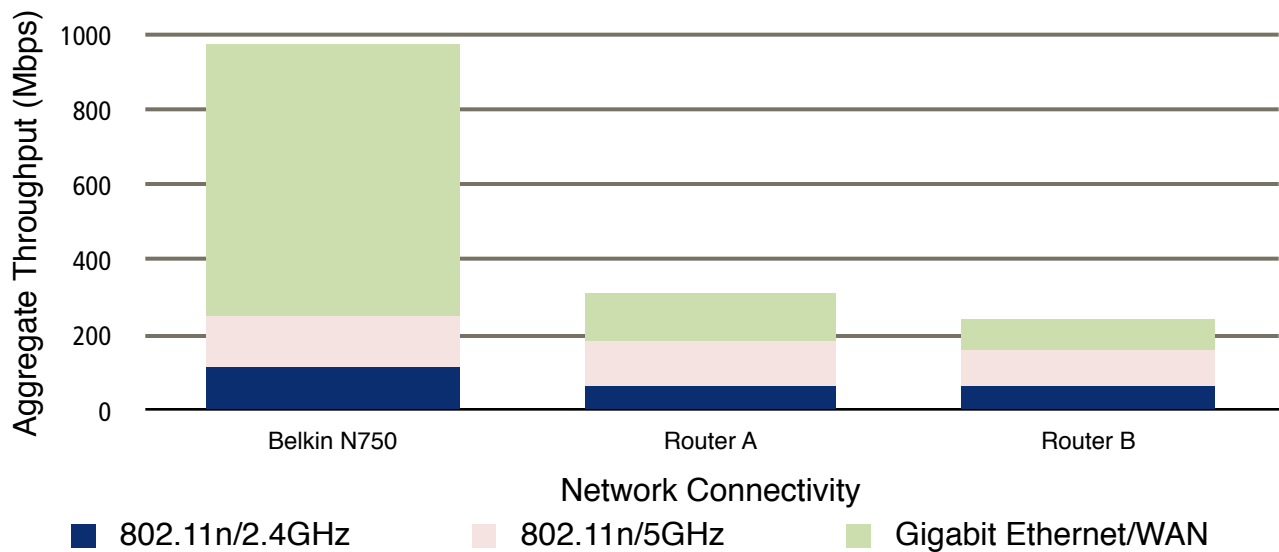
Belkin commissioned Tolly to benchmark the performance of its wireless LAN (WLAN) routers in an actual residence and compare that performance against comparable products from other leading home networking vendors. All tests for a given benchmark were run on the same day to minimize variability from environmental factors, all results reported being the average of the four router orientations. For WAN-LAN throughput tests, wireless clients were placed 15 feet from the router in order to simulate a high processing burden on the router.

### THE BOTTOM LINE

Belkin's N750 Dual-Band Router Provides:

- 1 Up to 900 Mbps combined throughput from WAN-to-LAN, LAN-to-WLAN, and WLAN-to-LAN
- 2 2X faster Concurrent Wi-Fi and WAN than competing routers
- 3 Up to 42% faster 2.4GHz and 5GHz Wi-Fi performance than competing routers
- 4 Up to 93% faster WAN downloads than competing routers
- 5 Consistent performance across all network connections

**Belkin N750 DB WLAN Router 802.11n Close-Range Performance vs. Comparable Routers**  
Simultaneous Bidirectional Throughput of 2.4GHz and 5GHz Bands with WAN Port Download Traffic  
(as reported by Ixia IxChariot v7.10 SP3)



Source: Tolly, May 2011

Notes: WAN port was Gigabit Ethernet, measured unidirectional traffic from WAN to LAN. Single location tested at 15ft.

Figure 1