

# WarpGateway™

## Overview

The Internet is a busy data superhighway driven by the rapid growth of wireless devices and cloud computing applications. At the heart of this transformation is video content. Maintaining a good user experience for real-time applications such as video is a common industry-wide challenge.

Badu Networks has developed TCP Optimization technology that improves data throughput to provide a good user experience. It achieves this without having to replace your existing network or devices.

## WarpGateway™ TCP Optimization Proxy Appliance

WarpGateway™ solution is designed to optimize your existing wireless networks without costly network equipment or end user device upgrades. It is a transparent optimization proxy that sits between your Internet modem and local Wi-Fi network (see diagram), available in compact form factor and plug-and-play installation.



WarpGateway™ accelerates download and uploads by up to 100% depending on network conditions. Performance for WarpGateway™ depends on network variables such as round trip time (RTT), packet loss %, available bandwidth, size of content, and other factors. It is based on Badu's WarpTCP™ technology, which was developed specifically to perform well in wireless networks.

## Features

- TCP Optimization Proxy Appliance
- Up to 100Mbps throughput
- Accelerates downloads and uploads by 20% - 100%
- Plug and play installation using WarpAdmin™ management tool
- Scalable product family to serve SoHo, SMB to Enterprise
- VLAN support (WG-100Vx)
- Failover Bypass Support (WG-100VB)



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# Benchmarks

The *WarpGateway*<sup>™</sup> benchmarks were measured across a variety of network conditions to quantify the benefit of *WarpTCP*<sup>™</sup> technology for enterprise Wi-Fi networks.

Traffic passing through *WarpGateway*<sup>™</sup> appliance showed faster download and upload times compared to Standard TCP, by up to 100%, regardless of file size or network conditions.

For a complete benchmark report, please contact your Badu sales representative.

## Free Trial

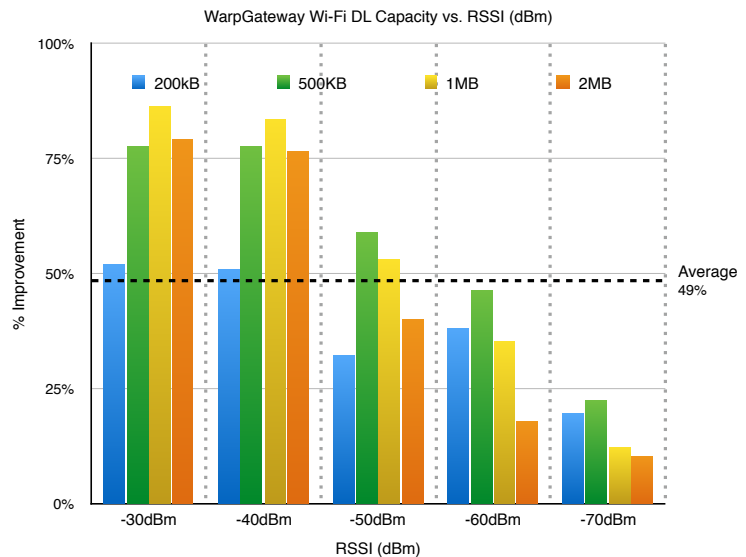
Discover the benefits that *WarpGateway*<sup>™</sup> delivers by asking for a free 30-day trial. Visit our website today and click on the “Free Trial” button at the bottom of the home page. It is risk free and easy to test.

## WarpTCP<sup>™</sup> – Smarter Congestion Control

TCP protocol was invented 35+ years ago, however it was never designed for use in massive cloud infrastructures or wireless networks. It was architected with guaranteed delivery in mind, not speed. Given the jittery nature of wireless networks, TCP often overreacts to congestion and network variations. The result is a drastic drop in throughput, causing a poor user experience.

*WarpTCP*<sup>™</sup> is a set of intelligent algorithms that maximize TCP throughput in the face of network variations such as delay, jitter, packet loss and random bandwidth fluctuation. It was especially designed to maintain high TCP throughput in wireless networks such as LTE and Wi-Fi. Compared to competing solutions, *WarpTCP*<sup>™</sup> does not overreact to temporary or false-alarm congestion, minimizes re-transmissions, and recovers faster from a congestion event.

## Benchmarks – WarpGateway<sup>™</sup> Wi-Fi Range Test



## Summary

*WarpGateway*<sup>™</sup> is a scalable network appliance that can easily be deployed in small, medium or large enterprise environments including Wi-Fi hot spots. It optimizes your Wi-Fi network to improve data throughput speeds by 20% - 100%. The installation is plug and play and easy to manage using the *WarpAdmin*<sup>™</sup> administrator tool.



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## Technical Specifications

Feature	WarpGateway™
<b>Processor</b>	Intel® Celeron J1900 SoC Quad-core 2.0 Ghz processor
<b>Memory</b>	4GB DDR3L-1333 onboard, non-expandable
<b>Expansion Slots</b>	2 Full-size Mini-PCIE slots
<b>Storage</b>	- 2.5" SATA2 Drive bay (max 9.5mm height) - Full size mSATA/Mini-PCIE shared slot
<b>Network</b>	4 Intel i211-AT gigabit LAN
<b>Other Features</b>	ACPI S2, HCI, Watchdog Timer 10-255 min/sec
<b>Rear Panel I/O</b>	- USB 3.0 port - USB 2.0 port - VGA port - 4 – RJ45
<b>Front Panel I/O</b>	- Power button - Reset button - Power & HDD LED - LAN LEDs - 2 – USB 2.0 ports - Serial Port
<b>BIOS</b>	AMI 64mb SMT Flash ROM
<b>Box Contents</b>	60W 12V AC Adapter, US Power Cord, Manual, Driver disk, Wall/Din rail mount kit
<b>Compliance</b>	CE, FCC, RoHS, ErP Ready
<b>Temperature</b>	Operating Temperature 0 to 40C, Storage Temperature -20 to 85C
<b>Dimensions</b>	185 x 142 x 48mm (DxWxH)

## Product Ordering Information

WarpGateway™ – Ordering Part Numbers:

<b>WG-100</b>	100Mbps throughput, desktop profile
<b>WG-100V</b>	100Mbps, VLAN support, desktop profile
<b>WG-100VB</b>	100Mbps, VLAN, Failover/Bypass, 1U profile



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