



## F5 Next Generation Hardware: Getting More for Less

F5's next generation hardware platforms were designed to improve performance while reducing costs to operate. Using state-of-the-art hardware components, F5's BIG-IP 3600 platform is 29% more power efficient than its predecessor the BIG-IP 3400. But increased efficiency isn't the only improvement in F5's hardware platforms. Performance has improved dramatically, offering unparalleled Performance per Watt (PPW) in an application delivery hardware platform.

### Reduced Power Consumption

In a cost-driven environment, reducing the cost to operate infrastructure devices is paramount. One of the ways in which operating costs can be reduced is to decrease power consumption and heat generation.

BIG-IP 3600 reduces consumption of power by 29% over its predecessor, the BIG-IP 3400, which results in a reduction of annual operating costs<sup>1</sup>. BIG-IP 3600 further reduces the BTUs generated by 40%, resulting in a reduction in the power necessary for cooling.

	BIG-IP 3400	BIG-IP 3600
<b>BTUs/Hour</b>	788	562
<b>Watts</b>	231	165
<b>Annual Cost</b>	\$215.63	\$154.02

<sup>1</sup> Annual cost based on average of 1.0656 per kilowatt hour

## Improved Performance per Watt

While reducing power consumption is desirable, it is also imperative that the next generation infrastructure hardware platforms improve efficiency in terms of performance.

BIG-IP 3600 dramatically increases the PPW of F5's hardware platforms, providing 50-65% *more* performance per watt over the BIG-IP 3400 as measured by each platform's performance in terms of number of layer 7 transactions<sup>2</sup> per watt.

	BIG-IP 3400	BIG-IP 3600
<b>Layer 7 TPS (1:1)</b>	14000	15000
<b>Layer 7 TPS (1:INF)</b>	55000	65000
<b>PPW (1:1)</b>	61	91
<b>PPW (1:INF)</b>	238	394

The BIG-IP 3600 further improves performance by doubling its capacity to perform SSL transactions. Offloading SSL from servers to the BIG-IP provides even greater savings and efficiency by freeing resources on servers and increasing their performance per watt, making the entire application infrastructure more efficient using less power. Combined with the increased power efficiency of the platform this results in a 180% PPW improvement.

	BIG-IP 3400	BIG-IP 3600
<b>SSL TPS</b>	5000	10000
<b>PPW (SSL)</b>	22	61
<b>SSL PPW Improvement</b>		180%

<sup>2</sup> [1:1] - HTTP 1.0 or HTTP 1.1 with 1 transaction per connection and OneConnect disabled.

[1:INF] - HTTP 1.0 or HTTP 1.1 with 1 transaction(request) per connection and OneConnect enabled