

## How X10 Compares to UPB

Written by Carl Holden

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### HOW X10 COMPARES TO UPB

"I have been installing home automation and lighting solutions since 1996 and have experienced the many/different aspects of lighting control; X10, RF, networked Smart Switches and centrally controlled. UPB is the solution I've been waiting for. I call it X10 on steroids, but the only thing X10 about it is that the control signals go over the standard house wiring. The UPB protocol is a masterpiece in every sense. The communication is robust and the capability to program advanced features will allow us to give customers some real cool features. I also like that the UPB switch system is a standalone lighting solution. Allowing us to install a nice system without the need for a controller until the customer is ready. It's well thought out products like this that keep me excited about this business."

-Dale Wojahn EE ESPI Owner, Home Systems

Feature	Typical	X10 Product	with UPB™ Technology
Reliability	80%	>99% reliable	
Communications			
2-way communications			
Pulse-position modulation			
Spread spectrum			
Signal level	2 Volts	40 Volts	
Communications frequencies	20KHz	4K-40KHz	
Speed			
bits/sec	60	480	
commands/sec			
Advanced	per System/Transformer	62,500	
Settings stored onboard			
Programmable			
Ease of Setup and Test			
Built-in testing and diagnostics			
Testing and diagnostics from a single point			
Complete Product Offering			
Wall Mount Dimmer - 1000W		X	
Wall Mount Dimmer - 600W		X	
6-button Wall Controller			
Powerline Interface Module			
	X		X

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