

# Wireless Network Extension Whitepaper

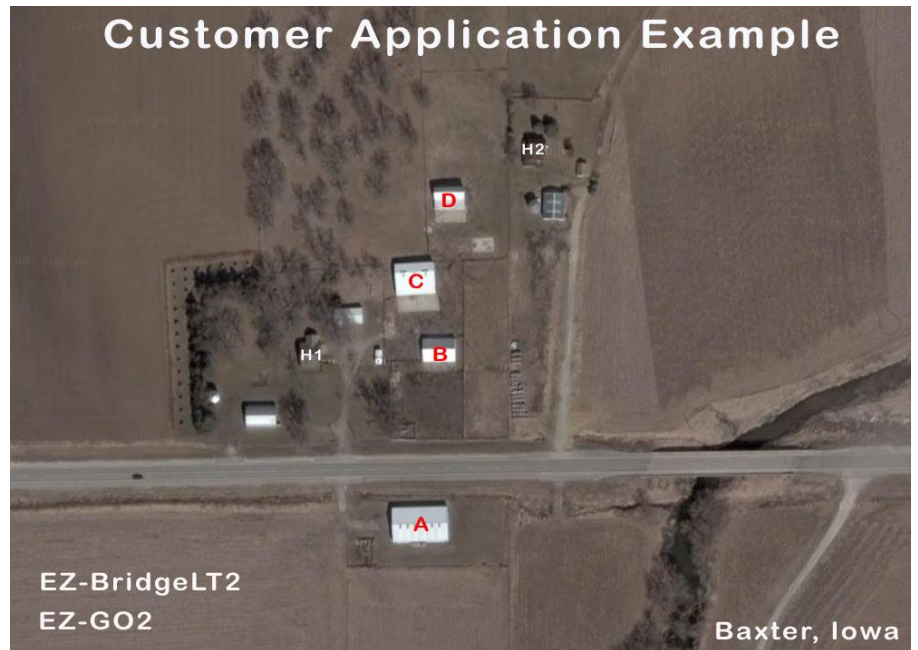
## Application Summary:

Customer had his main computer and internet access at his house (H1). He wanted to be able to expand his network to some of his external buildings so that he could monitor those buildings from his house and be able to access the internet when he was working in those buildings. He also wanted to be able to share internet with his son who lived in house (H2). Customer had a security camera in building A and some temperature and humidity sensors in building D which he wanted to be able to monitor from his house.

## Solution:

Customer installed an EZ-Bridge LT2 between his house (H1) and building A. This created a 15Mbps high speed point to point link between the 2 locations. Customer then installed an EZ-GO2 configured as an access point bridge on his house pointing to his son's house (H2). He installed EZ-GO2 units configured as client bridges on building B, building C, building D and at his son's house (H2).

**Notes:** The EZ-BridgeLT2 and EZ-GO2 units on his house (H1) were set to different wireless channels so they wouldn't interfere with each other. They were both connected to the LAN ports on his Linksys router. The EZ-GO2 client units were connected directly to computers or in the case of his son's house (H2) the EZ-GO2 was connected to the WAN port on his son's Netgear router so that his wireless router could provide wireless internet access throughout his house.



## List of Materials:

Item	Where to Buy	Cost
Cat 5 Cable	Home Depot, Walmart	\$.20/ft x 270ft = \$54
EZ-Bridge LT2	e-zynet, ez-bridge.com	\$189 each x 1 = \$189
EZ-GO2	e-zynet, ez-bridge.com	\$83 each x 5 = \$415
Total		\$658

## Conclusion:

The EZ-BridgeLT2 and EZ-GO2 products offered a cost effective solution for this customers application. For less than \$700 he was able to connect 6 buildings wirelessly. The time to install each unit was about 30 minutes so to install all 6 buildings was about 3-4 hours. The farthest link was just over 500 feet but the EZ-Bridge and EZ-GO2 products are capable of links to 3 miles so wider area network expansion is possible.

For more information visit [e-zynet.net](http://e-zynet.net) or [ez-bridge.com](http://ez-bridge.com)