



Council Bluffs Community WiFi Project

LinkPower™ LPS3400ATMP-300-T1



During the mid-1900s, Council Bluffs, IA thrived as a prominent railroad hub. However, by the early 2000s, the majority of business opportunities shifted across the river to Omaha, leaving Council Bluffs at a disadvantage. In 2014, Google intervened by establishing a data center in the city and providing Chromebooks to all students. Although the students could utilize the Chromebooks at school, connectivity was lost the moment they returned home. This marked the emergence of the digital divide in the community.



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The Need

The City of Council Bluffs, in collaboration with the Council Bluffs School District, established a Wi-Fi consortium, labeling the initiative as "BLink - Bluffs Community Wi-Fi." Various partners within the community united to finance this project, ensuring that no taxpayer dollars were utilized. The community collectively decided to initiate a pilot project covering approximately 1 square mile around a school location. Upon the success of this initial phase, subsequent phases were planned.

The Solution

The BLink WiFi network relies significantly on the LinkPower™ LPS3400ATMP-300-T1 6-Port Gigabit Layer 2+ Managed Outdoor PoE Switches. These outdoor PoE switches from Inscapedata serve a crucial function by providing power and connectivity to access points positioned on different locations.

Released in August 2015, the LPS3400ATMP-300-T1 is a high-performance Gigabit Layer 2+ Managed Outdoor PoE Switch that is compliant to IEEE802.3bt PoE Standards. The LPS3400ATMP-300-T1 delivers data and high power over a single network cable that is protected with an IP68 compliant weatherproof enclosure.

"The continuous expansion of BLink increases the opportunities for our youth to learn beyond the classroom walls. This project is a great example of public/private partnership. Without the support of Google, Iowa West Foundation, and CBCSD, Bluffs Community WiFi would not be possible."

Matt Walsh
Mayor of Council Bluffs

With 256Gbps non-blocking switching capacity and 20.83Mpps forwarding rate @64 bytes, LPS3400ATMP-300-T1 optimizes network bandwidth, while also delivering the network traffic highly effectively.

The switch offers Layer 2+ Switching features including: spanning tree STP (802.1D) and RSTP(802.1W), 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, PoE+ management, IP Source Guard, ARP inspection, ACLs etc. Additional key features include streamlined management through WEB, CLI, TELNET, SSH, SNMP, and G.8032, support <50ms industrial quick ring protection.



Download Product Datasheet:



Product Information Online: <http://www.inscapedata.com>

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