OAKWIFI Initiative

LinkPower™ LPS3800ATM-T1

In an era where connectivity defines progress, cities must adopt innovative strategies for deploying internet access points. As societies rely increasingly on digital platforms, the imperative to bridge the digital divide grows. Internet access plays a critical role in fostering inclusivity, education, and economic growth. Cities worldwide are urged to redefine their approaches, recognizing the transformative impact of widespread connectivity on societal advancement.

LinkPower™ LPS3400ATM-T1

The Need

The OAKWIFI initiative, part of the #OaklandUndivided campaign, addresses this gap by providing free connectivity for students, seniors, job seekers, small businesses, and the underserved. The initiative has established live access points across the city, extending coverage from West Oakland to Downtown and along the International Blvd corridor to the San Leandro border.

Implementation began in mid-November 2020, with all of the 13 zones expected to be online by the end of March 2021.

The Solution

The LinkPower™ LPS3800ATM-T1 14-Port Gigabit Layer 2+ Managed Outdoor PoE (Power over Ethernet) Switches are at the core of the OAKWIFI network. These LinkPower™ Outdoor PoE Switches power and connect more than 1100 access points installed on locations such as streetlights and traffic signals.

Released in August 2015, the LPS3800ATM-T1 is a high- performance Gigabit Layer 2+ Managed Outdoor PoE Switch that is compliant to IEEE802.3af/at PoE Standards. The LPS3800ATM-T1 delivers data and power over a single network cable that is protected with an IP68 compliant weatherproof enclosure.

HIGHLIGHTS

- 7 sq miles
- Over 100,000 users
- 68.73 TB of data
- Over 15 high schools served

With 256Gbps non-blocking switching capacity and 20.83Mpps forwarding rate @64 bytes, LPS3800ATM-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: