

Engineering Expertise Behind Every Deployment

SmartWAVE Technologies brings together wireless-network engineering, system design, and careful equipment selection to deliver dependable outdoor connectivity. Since 2017, SmartWAVE has identified Inscape Data's LinkPower™ outdoor PoE solutions for its projects. This integrated approach to switching, power delivery, and weatherproof protection complements SmartWAVE's network designs and simplifies installations involving wireless radios, security cameras, and other connected devices.

From East San Jose to a Regional Network Footprint

SmartWAVE's first Bay Area LinkPower deployment began in 2017 with the Access Eastside Community Wi-Fi project in San Jose. The installation included the LinkPower™ LPS3400ATM-T1 outdoor PoE switch for network connectivity and PoE switching, along with the PIS2030 PoE injector for connected equipment. According to SmartWAVE, the original products were still operating in San Jose in 2026, approximately ten years after the first installation.

That first project laid the groundwork for deployments throughout the North Bay, Marin, Solano County, East Bay, San Francisco, the Peninsula, and South Bay. The deployment map identifies Santa Rosa, Napa, Novato, San Rafael, Fairfield, Vallejo, Richmond, Berkeley, Oakland, Concord, Antioch, San Leandro, Hayward, Fremont, San Francisco, Daly City, San Mateo, Palo Alto, and Gilroy. San Jose is marked separately as Inscape Data's corporate office and the initial project location.

Bay Area Deployment Map



Deployment locations reproduced from the map supplied for this case study. San Jose is marked as Inscape Data's corporate office.

Wi-Fi Equipment Used in the East San Jose Deployment

The East San Jose installation cross-reference lists Ruckus T-Series outdoor wireless radios and various PTP/PTMP wireless backhaul equipment, along with Inscape Data's LinkPower™ LPS3400ATM-T1 switches and PIS2030 injectors. These records illustrate how SmartWAVE combined wireless equipment with outdoor PoE infrastructure at its installation sites. The spreadsheet cross-references equipment, not each device's operating history.

Manufacturer	Equipment	Listed quantity
Ruckus	T-Series outdoor wireless radio	1800+
Mimosa/Cambium/Tarana	PTP/PTMP wireless radios	900+
Inscape Data	LPS3400ATM-T1 outdoor PoE switch	1091
Inscape Data	LPS3400ATMP-T1	169
Inscape Data	LPS10868ATMP-T1	24
Inscape Data	PIS2030 PoE injector	1273
Inscape Data	PIS2095 PoE injector	23
Inscape Data	LPS2000-65 PoE Switch	26

Reliability Across Diverse Bay Area Climates

SmartWAVE's Bay Area deployments span cool coastal communities and hot inland locations. The table pairs typical January lows of approximately 38–40°F (3–4°C) with documented September 2022 heat-wave highs reaching 117°F (47.2°C). Together, these figures illustrate the region's varied outdoor conditions and the importance of dependable switching, PoE delivery, and weatherproof protection.

Region and reference location	Typical January low	Documented high	Date of high
North Bay / Marin / Santa Rosa COOP [1]	38°F (3°C)	115°F (46.1°C)	Sept. 6, 2022
Solano County / Fairfield / Travis AFB [2]	40°F (4°C)	117°F (47.2°C)	Sept. 5, 2022
East Bay / Livermore COOP [1]	40°F (4°C)	116°F (46.7°C)	Sept. 5–6, 2022
San Francisco / Peninsula / Redwood City [1]	39°F (4°C)	110°F (43.3°C)	Sept. 6, 2022
South Bay / Gilroy [1]	38°F (3°C)	113°F (45.0°C)	Sept. 6, 2022
South Bay / San Jose Airport [1]	38°F (3°C)	109°F (42.8°C)	Sept. 6, 2022

January lows retain the original approximate regional seasonal averages, primarily based on 1991–2020 normals; they are not the lowest temperatures recorded during 2020–2026. Highs are selected dated weather-station observations within that period. These figures are not site-level or enclosure measurements, product ratings, or a complete survey of regional extremes. NWS highs were preliminary when issued. [1–2]

[1] National Weather Service, September 6, 2022 Record Event Report (preliminary), archived by Iowa Environmental Mesonet. Source

[2] CBS/KPIX, September 5, 2022 weather report. Source

Long Term Field Performance and Continued Expansion

SmartWAVE reports that LinkPower outdoor PoE products have delivered reliable service through the Bay Area's changing weather, with few reported failures. Between 2024 and 2026, SmartWAVE purchased 250 LinkPower outdoor PoE switches and reported an RMA rate below 1% across its LinkPower purchases. The LPS3400ATM-T1 switch and PIS2030 injector from the original East San Jose installation offer a tangible example of long-term reliable field performance.

SmartWAVE's continued investment in LinkPower demonstrates the value of pairing experienced network engineering with contractor-grade outdoor PoE infrastructure. Its deployment history and repeat purchases support a clear conclusion: LinkPower has provided lasting reliability and practical value as SmartWAVE's Bay Area networks expand.

Featured LinkPower Solutions



LPS3000 SERIES | OUTDOOR POE SWITCHES

- All-in-One Box Design for fast, simplified installation
- Dedicated hotel Space for clean cable management and additional equipment
- Dual Power Input Redundancy supporting 110–240VAC and 48VDC
- Up to 8 Gigabit PoE Ports supporting IEEE 802.3af/at/bt devices
- IP68 Weatherproof Protection



PIS SERIES | OUTDOOR POE INJECTORS

- IP67 Weatherproof Protection for reliable outdoor performance
- Up to 95W PoE Output for high-power network devices
- Simple Field Installation for faster deployment and reduced installation costs
- Wide Operating Temperature Range from -22°F to +158°F (-30°C to +70°C)
- IEEE 802.3bt Support for high-power PoE applications

About Inscape Data Corporation

Founded in 2004 in San Jose, California, Inscape Data Corporation is a U.S. manufacturer specializing in outdoor networking and power infrastructure. Known for its patented LinkPower™ Contractor Grade Outdoor PoE solutions, the company develops outdoor switching and power-delivery products for wireless, security, enterprise, and smart-city networks. Its portfolio continues to expand with outdoor UPS, battery-backup, and intelligent power-management solutions. Website: www.inscapedata.com

About SmartWAVE Technologies

Founded in 2007, SmartWAVE Technologies is a wireless-focused systems integrator specializing in the planning, design, integration, and management of wireless network infrastructure. It serves municipal and smart-city, education, healthcare, and enterprise customers. Website: www.smartwave.us.

© Copyright 2027, Inscape Data Corporation, All Rights Reserved. LinkPower™, and Inscape Data are trademarks of Inscape Data Corporation.