

Reduce Deployment Costs

An emergency can occur anywhere at any time within a building, and therefore, public safety distributed antenna systems (DAS) must always be ready to facilitate the life-safety radio traffic of first responders. Microlab's System Monitor Alarm Report Technology (SMART) Passives System enables real-time monitoring of DAS cabling, RF components, and antennas by pinpointing and alarming upon any system fault. The SMART Passives System joins Microlab's broad portfolio of public safety DAS and wide-area, land mobile radio (LMR) dispatch network products to provide dependable network performance and radio coverage while significantly reducing deployment costs.

In order to minimize costly system re-work while in the field, Microlab products are accurately designed and deliver proper operation. Guaranteed specifications assure minimal dissipative loss and RF insertion loss, along with superior voltage standing wave ratio (VSWR) and low passive intermodulation (PIM). Providing a 36-month warranty, Microlab products provide robust environmental protection with an IP67 rating, (protection from total dust ingress), ASTM-B117 salt fog qualification, plenum rating (low-smoke, low-flame, and temperature-tolerant characteristics), and wide temperature range support. Due to their high performance, Microlab products are able to achieve the same coverage with a fewer number of components, boasting a high-quality design that not only improves system reliability, but reduces the risk of expensive system redesigns and minimizes the OPEX of public safety DAS deployments.

Expensive upgrades and replacements are often necessary as technology improves and is deployed. Microlab relieves the frequency of component replacements by delivering resilient, wide bandwidth products built with the future in mind, with its product portfolio covering all major commercial wireless and public safety bands, including VHF, UHF, Tetra, and FirstNet frequencies. Further strengthening trusted device longevity, the overall product mean time between failures (MTBF) is more than 10 million hours, meaning Microlab products are built to last with its lengthy mean lifetime, which reduces the chance of spending valuable time and resources on troubleshoots and repairs.

Microlab's comprehensive product catalog simplifies administrative and logistics costs by streamlining interactions with suppliers while also enabling the potential for volume discounts. Facilitating orders with minimal lead time, many products are assembled at its manufacturing facility in Parsippany, NJ, while other products assembled overseas are held in inventory both in NJ and in a large, nationwide stocking distribution network for short-term availability. Using a multi-tiered manufacturing and distribution strategy that significantly improves component availability, Microlab's most popular products are available to ship within 3-5 days.

Providing industry-leading public safety DAS and wide-area, LMR dispatch network solutions for more than 70 years, Microlab delivers deep expertise and high-performance products at a low price point to RF engineers and technicians who design and deploy mission-critical communications systems. Experienced application engineering support is available to help develop more cost-effective system architectures, optimize system deployments, and support customer-specific customization requirements. To learn more about Microlab's economical yet robust public safety DAS solutions, visit <https://microlabtech.com/lmr-public-safety>.