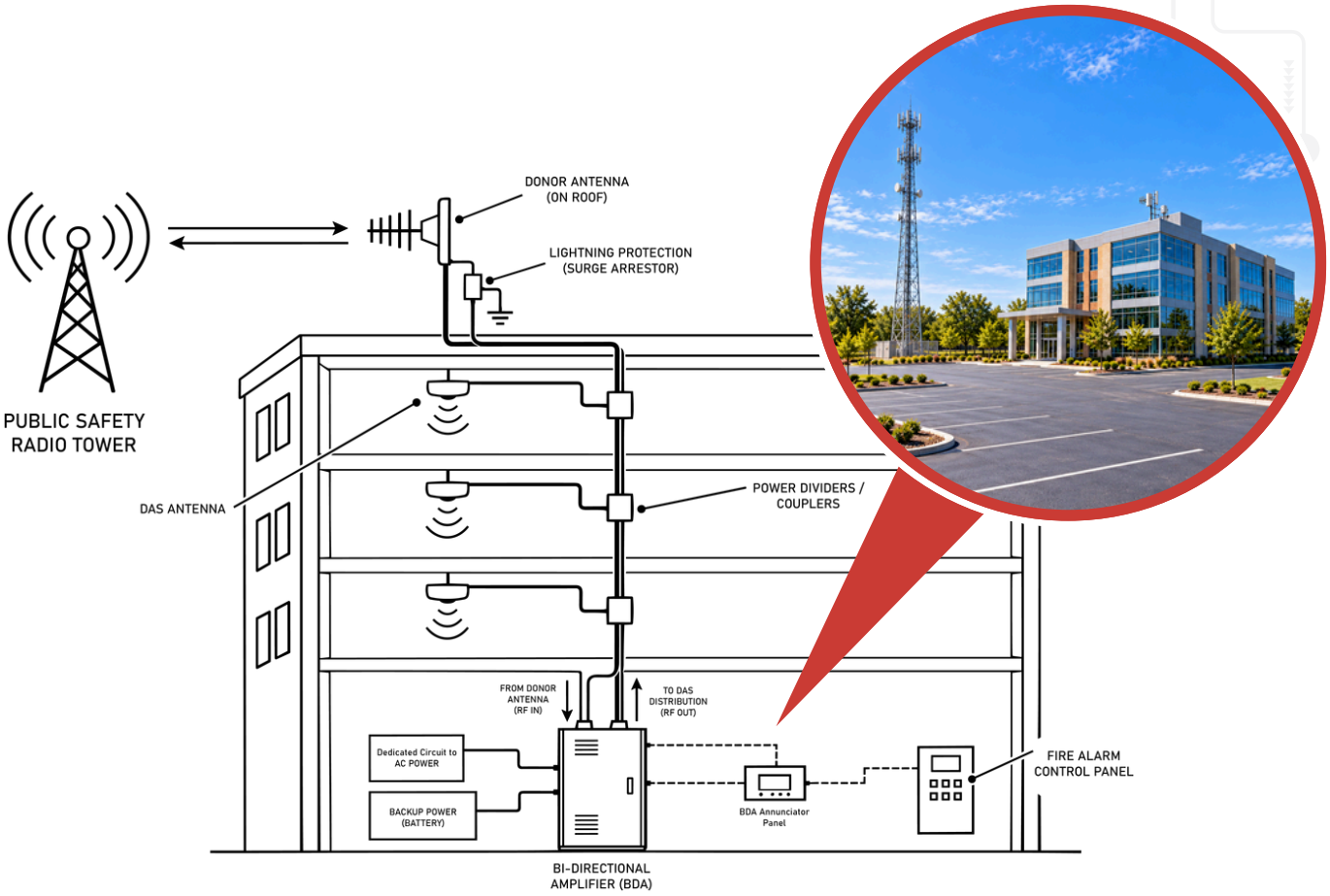
Zagarri Engineering

How an ERCES System Works



An Emergency Responder Communication Enhancement System (ERCES) helps maintain reliable two-way radio communication for first responders inside buildings where structural materials can weaken or block radio signals. A rooftop donor antenna communicates with the public safety radio network. The signal travels through a bi-directional amplifier (BDA), which amplifies incoming and outgoing radio signals. Power dividers and couplers distribute the signal to indoor DAS antennas located throughout the building, providing coverage across multiple floors and critical areas.

The system includes bi-directional amplifier (BDA), battery backup, and monitoring connections to an annunciator panel and the building's fire alarm control panel. These components support continued operation and alert personnel to system trouble conditions. Together, these components help firefighters and other emergency responders communicate clearly throughout the building, including areas where radio coverage would otherwise be limited.

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