



AlertBadger™ System Design Criteria

1) System Components

Gateway

The central communication and control processor for your system.

eMitter™

A fully integrated device equipped with sensors for:

- Motion and movement
- Location and direction
- Temperature
- Radio and cellular communication
- GPS
- Camera (for image capture)

eMos™

A complete sensing device with all the capabilities of the eMitter™, except the camera.

Best suited for motion detection and environmental monitoring.

Note: Available sensing and communication features may vary depending on your monitoring subscription level.

2) System Design & Layout

Begin by sketching a layout of your property on a large sheet of paper. Include approximate distances whenever possible—this will help optimize device placement.

Map Your Property

Draw the general shapes and locations of:

- Your home
- Garage and outbuildings (pool house, tool shed, barn, etc.)
- Gates, fences, and entry points
- Vehicles, trailers, RV storage
- Any other important areas to monitor

This layout will help you plan device placement and evaluate sight lines.

Gateway Placement

Position your Gateway in a **central location**, ideally near an exterior wall or window. This improves communication with:

- Your devices
- Your Wi-Fi network
- Cellular signals

With our advanced technologies, and while devices can communicate over long distances, **clearer paths result in stronger, more reliable connections.**

Network Design Principles

Your devices form a **self-creating mesh network**:

- Devices communicate with the Gateway *and* with each other
- Signals can be relayed (or “daisy-chained”) to extend range
- Strategic placement improves reliability and coverage

Key concept: Think “line of sight.”

While our powerful technologies are designed to penetrate most walls and materials, obstructions like concrete walls, metal structures, or hills can reduce signal strength. Adding an eMos™ between devices can help route signals around these obstacles.

Example:

Place one eMos™ on a barn stall gate and another at the barn entrance to create a clear communication path back to the Gateway.

eMitter™ Placement (Camera Units)

Start by placing these on your layout where you want to capture an image of any intrusion. (e.g., with a © symbol).

Use eMitters™ for:

- Entry points (gates, doors)
- Pool access areas
- Driveways or approaches
- High-priority security zones

If no structure is available, mount on a tree or use an Badger-Stake™ to monitor key approaches.

eMos™ Placement (Sensor & Relay Units)

Mark these with a different symbol.

Place and use eMos™ units for:

- Motion detection
- Environmental monitoring
- Signal relay between devices
- GPS tracking if required

Ideal locations include:

- Secondary gates
- Spa or pool covers
- Vehicles and trailers
- Tool sheds or outbuildings

Important:

If a device has a weak communication path, place an eMos™ between it and the Gateway (or another device) to strengthen the signal path.

Design Examples

Home Applications

- Use eMitters™ for security and image capture
- Use eMos™ for motion detection and network support
- Both devices generate alerts

Ranch or Farm Applications

- Devices can cover **thousands of feet**
- Extend range by adding eMos™ units as relays
- Route signals around terrain and structures using line-of-sight placement

Commercial / Company Applications

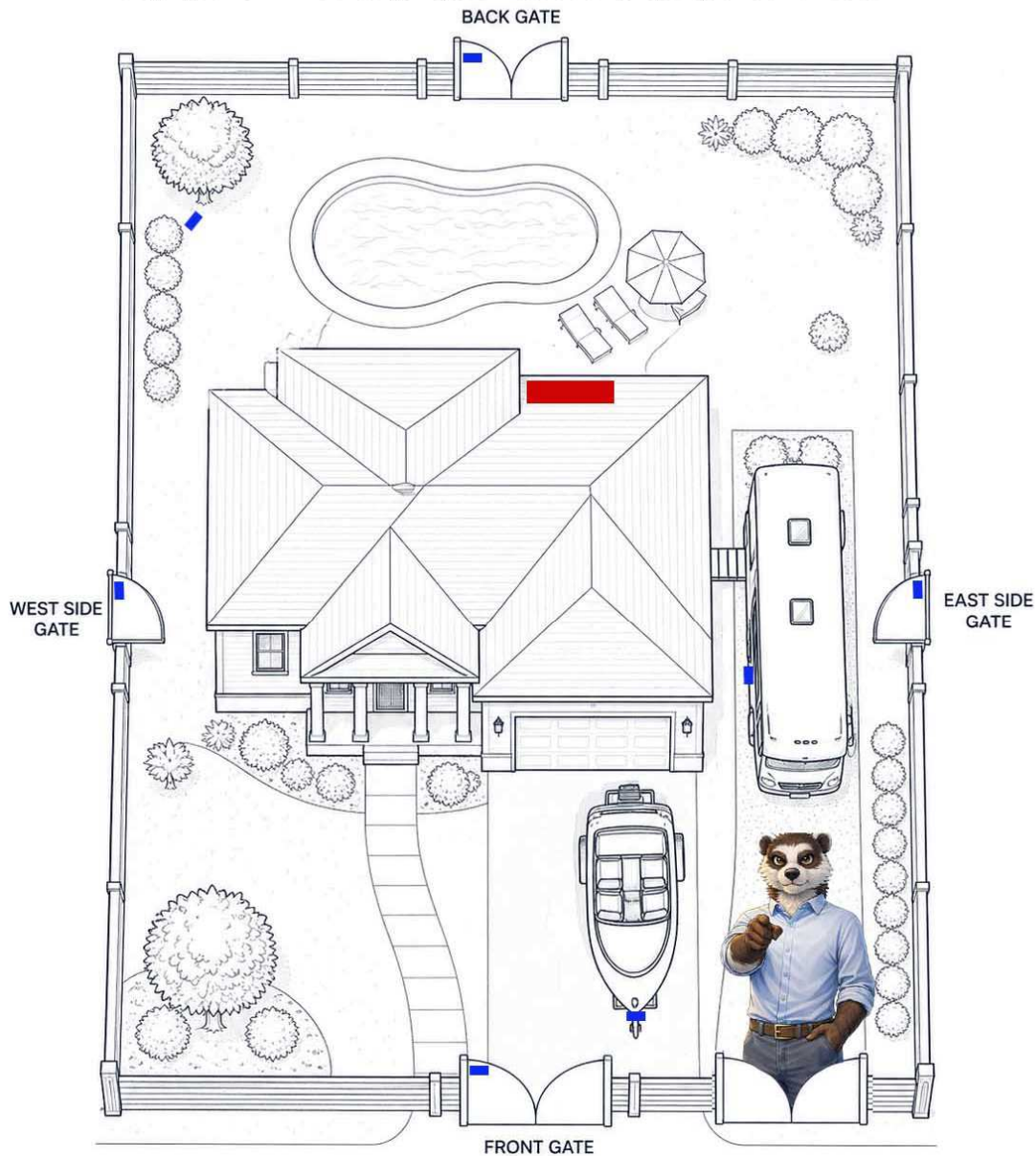
- Apply the same principles:
 - Protect access points with eMitters™
 - Use eMos™ units to expand coverage and ensure network reliability
 - Design for redundancy in high-priority areas

Core Design Philosophy

- Plan first—placement matters
- Think in terms of **coverage and pathways**, not just devices
- Use **line of sight + mesh networking** to maximize performance
- Add devices strategically to improve reliability and range

Sample design for a home:

Design your own AlertBadger system based on property size and needs.



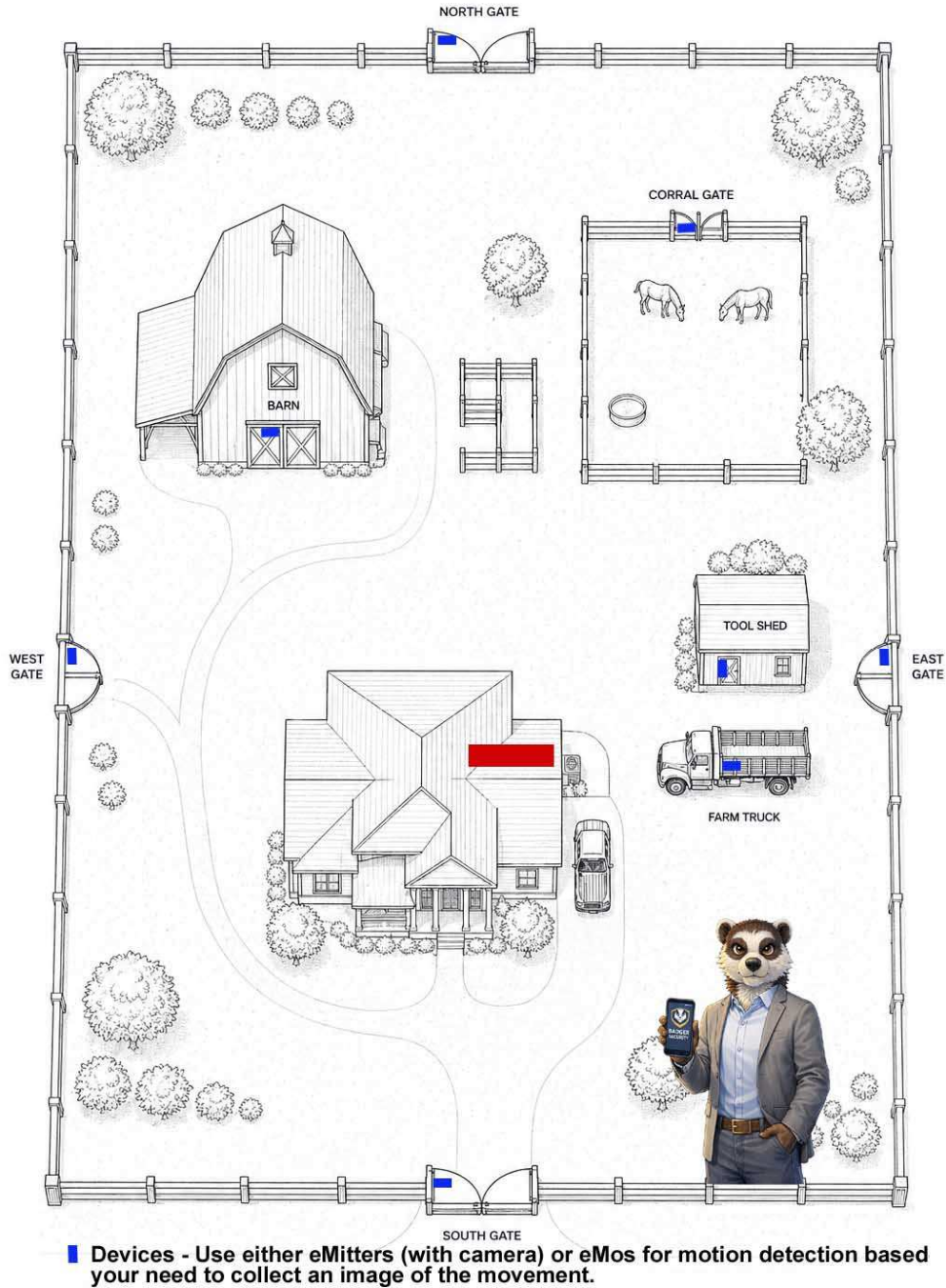
■ Devices - Use either eMitters (with camera) or eMos for motion detection based on your need to collect an image of the movement.

■ Gateway processor controlling your system.

Again, use eMitters™ for sensing and image capture, eMos™ for motion and movements detection. You'll get alerts from both.

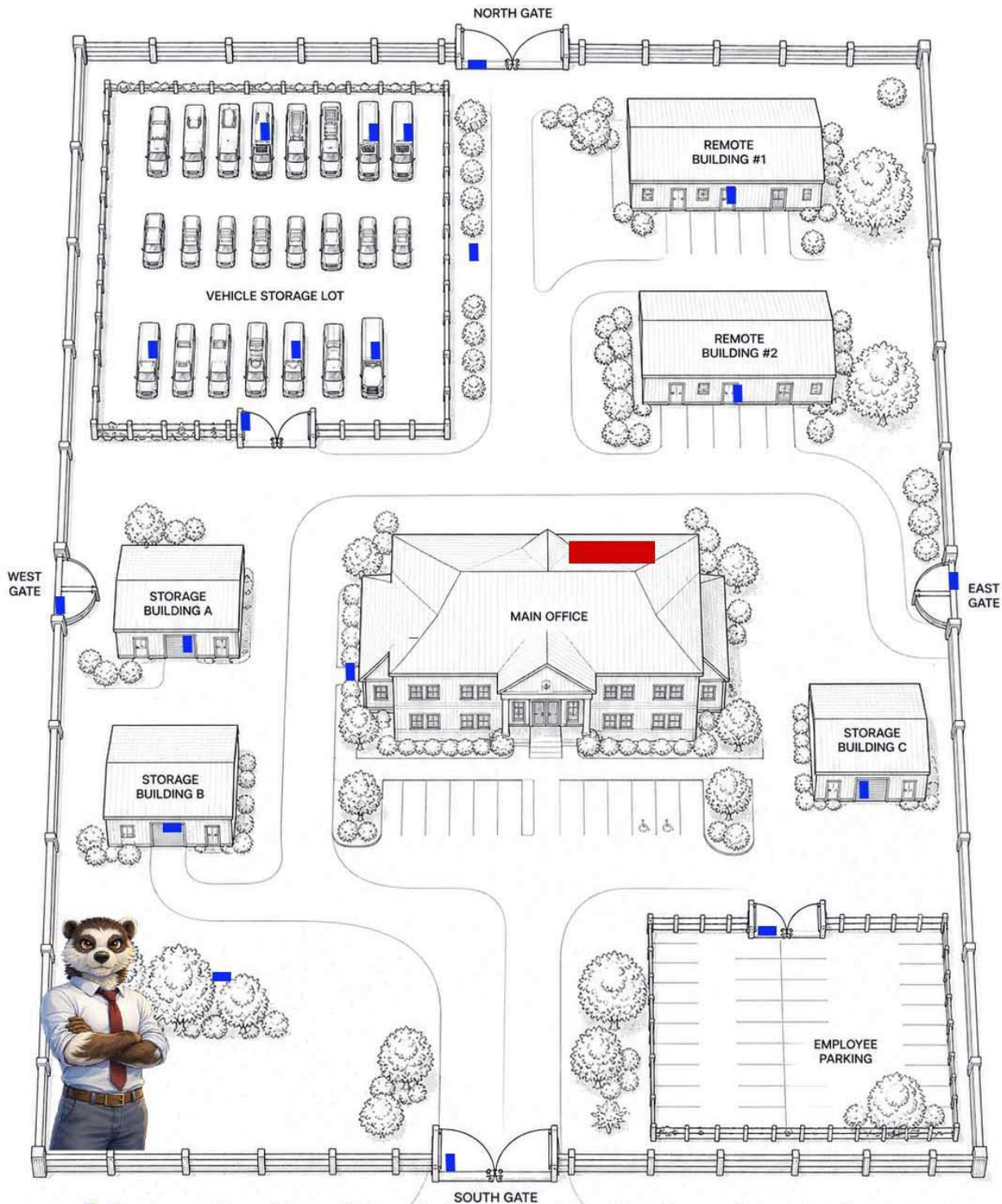
Sample design for a ranch or farm:

Design your own AlertBadger system based on property size and needs.



Remember that our eMitters™ and eMos™ units can cover great distances (thousands of feet), so the longer the distance, just add an eMos™ to route around buildings and hills and extend the distance. Think line of sight and daisy chaining.

Sample design for companies:



■ Devices - Use either eMitters (with camera) or eMos for motion detection based your need to collect an image of the movement.

■ Gateway processor controlling your system.

Design your system to cover access points, open and hidden areas with vegetation, areas where traffic awareness during peak and off hours is important, storage and vehicle assets. Again, capture images where needed and be alerted on movements elsewhere.