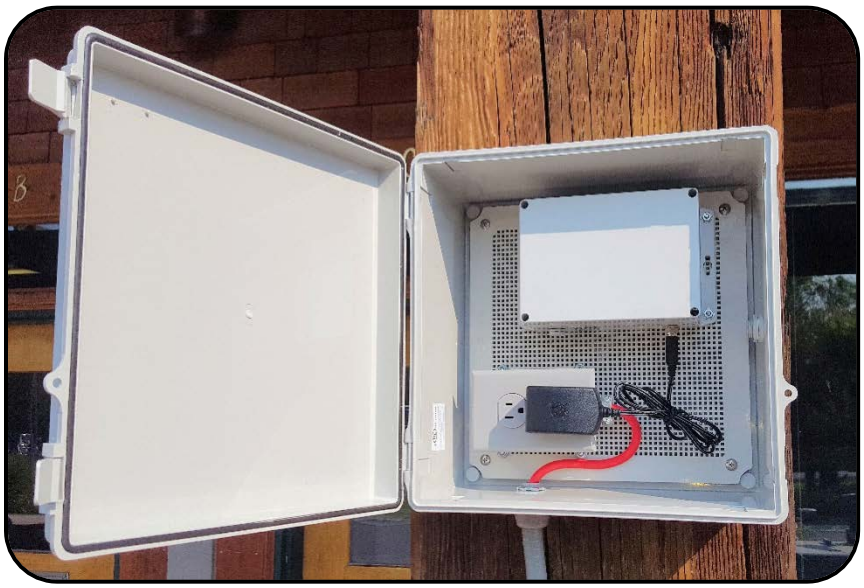
Geoforce Gateway Outdoor Assembly Guidance

Outdoor Overview

Assembling the Geoforce Gateway for outdoors operation requires the installation technician to insert the standard Geoforce Gateway into an enclosure for outdoor operation. This outdoor assembly is meant to protect the Geoforce Gateway's power receptacle and plug.

The following parts are recommended for use to protect the Geoforce Gateway for outdoor installations. Substitution of equivalent parts is permitted, though inferior parts that do not protect environmental damage to the GLE Gateway will void the device warranty.



Item Description	Manufacturer	Part#	Qty
Outdoor Enclosure (15.7" x 11.7" x 6") NEMA 1, 4, 4x and IEC529-IP66	BUD	NBB-15247	1
Enclosure Internal Mounting Panel	BUD	NBB-11069-P	1
Enclosure Vent	BUD	NBX-10911	1
Liquidtight Wiring Gland (or similar)	Thomas&Betts	58133602	1
Electrical outlet cover (or similar)	Levitron	87003	1
1-Gang Receptacle box (or similar)	Hubbell-Bell	PSB37550GY	1
Wiring Receptacle (or similar)	Eaton	TWR270W	1
Wall Mount bracket (usually included in NBB-15247)	BUD	NBX-10922	4
Optional Pole Mount Hardware	TerraWave	TWPMK-10-12-UNIV	1

General Assembly Notes

Assembly of the outdoor enclosure places the Geoforce Gateway inside the NEMA4X enclosure, with all internal components mounted to a plastic baseplate. This allows for easy assembly outside the enclosure then mounting all the necessary components at once on the insert baseplate. The baseplate and other internal components should be plastic in order to maximize Geoforce Gateway radio operation. The electrical receptacle for example is shown as an outdoor, plastic assembly to minimize metallic shielding. Wiring internal to the box should be dressed in such a way at to minimize shielding (i.e. do not allow wires in front of the Geoforce Gateway box).

Power must be provided to the box. The wiring gland shown may be replaced with a hard conduit pass-through, or any other weatherproof connection required by local electrical code. A licensed electrician may be required to complete the wiring and installation for outdoor deployment.

The enclosure vent is highly recommended. Sealed NEMA4x boxes are excellent at preventing water ingress from rain, but condensation may still occur. The vent will equalize atmospheric pressure inside the box and help prevent condensation.

Geoforce Gateway Outdoor Installation Guidance

General Outdoor Installation Notes

The Geoforce Gateway outdoor assembly should be mounted on buildings or poles in such a way as to maximize radio line of sight to the area of intended coverage. Each Gateway device will have a typical range of 100-200ft with the best radio performance through the door of the enclosure.

The unit can be mounted on a wall using the recommended wall mount brackets or optionally pole mounted using the recommended pole-mount hardware or similar. Power must be provided to the mounting location and will typically require a licensed electrician for installation.

For additional information regarding Geoforce Gateway outdoor installations or custom configurations, please contact your Geoforce sales representative or customer service.