



Installation Instructions

L[G]E[W]-6-60[-X] Series
SW3-1010 - v2

1. Introduction

The L[G]E[W]-6-60[-X] antenna series is a range of low profile antennas incorporating a wideband 4G/5G frequencies along with an optional active GPS/GNSS/BEIDOU antenna with 26dB LNA gain and optional 2x2, 3x3 or 4x4 WiFi. The antenna range can be deployed with or without a conductive ground plane.



Electrical Safety Note

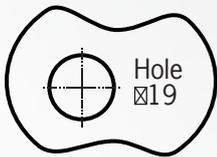
This product contains an active GPS antenna (part number SR8-JG26NS). Rated voltage: 3-5VDC Rated current: 20mA maximum. The supply to this device must be provided with overcurrent protection of 1A maximum.

2. Mounting Requirements and Selecting Location

This antenna range can be deployed with or without a conductive ground plane although the presence or absence of a ground plane will impact on performance.

Ensure that there is adequate under panel clearance and that there is no double skin panel or cross brace present. Measure to check for central position if applicable. For optimal performance the antenna should, if possible, be mounted at least 300mm (1ft) away from other conductive objects on the mounting panel.

3. Prepare and Drill Hole



Mask panel area around hole position to protect paintwork and headliner.

Drill a pilot hole, and then increase to 19mm (3/4"), ensuring that drill/cutter bit does not contact headliner. Clean area around the hole, carefully removing all swarf. Do not mount to a hole larger than 19mm diameter.

If mounting to a conductive ground plane remove paint and primer from under panel surface to ensure adequate earth contact by washer and nut. Apply some petroleum jelly or paint around the hole to prevent corrosion.



4. Fitting the Antenna

Remove protective backing from underside of antenna, feed coaxial cable(s) through panel. Position the antenna over the hole and stick to panel by applying firm downward pressure. Assemble nut from underside and tighten.

IMPORTANT: Do not exceed a torque of 5Nm (3.6ft/lbs) when tightening the mounting nut.

5. Routing and Terminating Coaxial Cable(s)

Connect extension coaxial cables to antenna and route to equipment, taking care to avoid fouling any moving vehicle component. The cables must not be routed in front of any airbag device.

6. Commission and test

Check comms cables:

- Carry out VSWR check, VSWR should measure as per datasheet.

Check GPS cable (if applicable):

- Check the GPS cable with DC to measure high resistance.
- Connect the GPS cable to the GPS receiver and check for satellite acquisition.

7. Notices



DO NOT

- operate the transmitter when someone is within 20cm (8") of the antenna.
- operate the equipment in an explosive atmosphere.
- attempt to install the antennas without the proper safe equipment to access the install location.
- install the antenna in such a way that it may fall or detach and cause injury.
- install the antenna near overhead power lines
- chew parts or put them in mouth, keep away from unsupervised children.



European Waste Electronic Equipment Directive 2002/96/EC

Waste electrical products should not be disposed of with household waste. All electronic products with the WEEE logo must be collected and sent to approved operators for safe disposal or recycling. Please recycle where facilities exist. Many electrical/electronic equipment retailers facilitate "Distributor Take-Back scheme" for household WEEE. Check with your Local Authority or electronic retailers for designated collection facilities where WEEE can be disposed of for free.



Directive 2011/65/EU (RoHS 2)

RoHS 2 compliance is declared per Directive 2011/65/EU and its subsequent amendments with exemption 6.c applied.

REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals, EC 1907/2006)

This product contains Lead (CAS No. 7439-92-1) which is classified as an SVHC (Substance of Very High Concern) as being toxic to reproduction under Article 57c. of REACH. **Do not chew parts or put them in mouth, keep away from unsupervised children. Dispose of parts as WEEE waste do not send to landfill.**

This declaration is issued under the sole responsibility of the manufacturer

The object of the declaration described above is in conformity with the relevant Union Harmonization Legislation below:

Directive 2014/53/EU Radio Equipment Directive (RED)

Harmonised Standards and References:

EN 301 489-1 (V2.1.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements".

Referencing EN 61000-4-2:2009 – Electrostatic Discharge Immunity and EN 61000-4-3:2006 +A1:2008 +A2:2010 – Radiated RF Immunity

EN 300 440-1 V1.6.1 (2010-08) – Electromagnetic compatibility and radio spectrum matters (ERM); short range devices; radio equipment to be used in the 1GHz to 40GHz frequency range; Part 1: Technical characteristics and Test methods in accordance with EN 300 440-2 V1.4.1 (2010-8) - Electromagnetic compatibility and radio spectrum matters (ERM); short range devices; radio equipment to be used in the 1GHz to 40GHz frequency range

Low Voltage Directive: Directive 2014/35/EU (Electrical Equipment designed for use within certain voltage limits) of 26th February 2014.

EN62368-1: 2014 Audio/video, information and communication technology equipment. Safety requirements

Waiver: This document represents information compiled to the best of our present knowledge. It is not intended to as a representation or warranty of fitness of the products described for any particular purpose. This document details guidelines for general information purposes only. Always seek specialist advice when planning installations and ensure that antennas are always installed by a properly qualified installer in compliance with local laws and regulations.