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RotorLogic 01AJ13

RadioMaster Nomad Dual 1W Gemini Xrossband ExpressLRS Module

Model: 01AJ13

INTRODUCTION

The RadioMaster Nomad is an advanced ExpressLRS module designed for remote control applications, offering enhanced reliability and range. It features dual 3rd-generation Semtech LR1121 transceivers, enabling operation across both 2.4GHz and 868/900MHz frequencies. This module utilizes the Gemini Xrossband protocol, which allows for simultaneous packet transmission on both frequency bands, significantly reducing the potential for packet loss due to interference.

Equipped with twin 1-watt dual-band transceivers, the Nomad module provides exceptional signal strength and revolutionary interference rejection, making it suitable for demanding environments. Its design includes a robust cooling system to maintain optimal performance during extended use.

WHAT'S IN THE Box

Upon opening the package, verify that all components are present and in good condition:

- Nomad ELRS Module
- Micro Module Adapter
- Nano Module Adapter
- Two Antennas



Image: The package contents include the Nomad module, two antennas, and adapters for micro and nano module bays.

SETUP

- Module Installation:** Select the appropriate adapter (micro or nano) for your radio transmitter. Carefully insert the Nomad module into the module bay of your radio. Ensure a secure fit. Some users have reported that shimming the module into the bay can prevent connection loss and failsafe events, especially if the fit is not perfectly snug.
- Antenna Attachment:** Screw the two provided antennas onto the module's antenna connectors. Ensure they are finger-tight but do not overtighten.
- Power Connection:** The module requires a DC input voltage between 6V and 16.8V. Connect a compatible power source to the DC input port if your radio does not supply sufficient power through the module bay.
- Firmware Update (Optional):** For optimal performance and access to the latest features, it is recommended to periodically check for and update the module's firmware. Connect the module to a computer using a USB-C cable via the USB port for firmware updates and configuration.



Image: The RadioMaster Nomad module with antennas installed, ready for integration into a radio transmitter.



Image: Detail of the power input and USB-C port on the side of the Nomad module, used for external power and firmware updates.

OPERATING

The Nomad module operates using the ExpressLRS protocol, offering robust and long-range control for your remote-controlled devices.

- **Dual-Band Operation:** The module simultaneously transmits on both 2.4GHz and 868/900MHz frequencies using the Gemini Xrossband protocol. This redundancy enhances signal reliability and reduces the impact of localized interference.
- **Binding:** Refer to your radio transmitter's manual and the ExpressLRS documentation for specific instructions on binding the Nomad module with your ExpressLRS receivers. The module is compatible with all existing 2.4GHz and 900MHz ExpressLRS receivers, including dual-band variants.
- **Power Output:** With dual 1-watt transceivers, the Nomad provides significant power output for extended range. The integrated cooling system manages heat effectively, ensuring stable performance even at high power settings.
- **Configuration:** Advanced settings and configurations can typically be accessed via the ExpressLRS Lua script on your radio transmitter or through the ExpressLRS Configurator software when connected via USB.



Image: Top view of the Nomad module, highlighting its cooling vents designed for efficient heat dissipation during operation.

MAINTENANCE

- **Cleaning:** Keep the module clean and free from dust and debris. Use a soft, dry cloth for cleaning. Avoid using liquid cleaners or solvents.
- **Antenna Care:** Ensure antennas are not bent or damaged. Damaged antennas can significantly reduce range and signal quality.
- **Storage:** Store the module in a dry, cool place away from direct sunlight and extreme temperatures when not in use.
- **Firmware:** Regularly check the official ExpressLRS website for firmware updates to ensure your module has the latest features and bug fixes.

TROUBLESHOOTING

- **Module Losing Connection / Failsafe:** If the module intermittently loses connection or triggers failsafe, ensure it is securely seated in the radio's module bay. A loose connection can cause instability. Some users have found that adding a small shim to ensure a tight fit can resolve this issue.

- **Compatibility Issues with Nano Module Radios:** The Nomad module is designed to work with both micro and nano module bays via included adapters. However, some specific radio models, particularly older or non-RadioMaster brands, may have physical or electrical incompatibilities with the nano adapter. Verify your radio's module bay specifications and compatibility with ExpressLRS modules before purchase.

- **No Power / Module Not Detected:**

- Check the power connection to the module, especially if using an external power source.
- Ensure the module is correctly inserted into the radio's module bay.
- Verify that your radio's firmware is up-to-date and supports external ExpressLRS modules.

- **Reduced Range / Poor Signal:**

- Inspect antennas for damage or loose connections.
- Ensure antennas are positioned correctly for optimal signal propagation.
- Check for local interference sources.
- Confirm the module's power output settings are appropriate for your environment.

SPECIFICATIONS

Feature	Detail
Model Number	01AJ13
Item Weight	6.4 ounces
Product Dimensions	4.5 x 3 x 3 inches
Frequency Range	2400 MHz - 2479 MHz / 903MHz - 927MHz
Voltage Input	6 - 16.8 Volts (DC)
Number of Channels	16
Special Feature	Long Range, Dual 1W Transceivers, Gemini Xrossband
Compatible Devices	ExpressLRS receivers (2.4GHz, 900MHz, and dual-band)
Water Resistance Level	Not Water Resistant
UPC	810020966626

SAFETY INFORMATION

Please read all instructions carefully before using the RadioMaster Nomad module to ensure safe operation and prevent damage to the device or other equipment.

- This product is not water resistant. Avoid exposure to moisture or liquids.
- Ensure correct voltage input (DC 6-16.8V). Incorrect voltage can damage the module.
- Operate the module in a well-ventilated area to prevent overheating, despite its integrated cooling system.
- Keep out of reach of children. Recommended age for use is 14 years and up.
- Always perform range checks and verify proper function before operating any remote-controlled aircraft

or vehicle.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the retailer or the manufacturer, RotorLogic (US Dealer), directly. Retain your proof of purchase for warranty claims.

Manufacturer: RadioMaster